

LIBRARY OF CONGRESS

UNITED STATES COPYRIGHT ROYALTY JUDGES

The Library of	ρ£	Congress
	-X	
IN THE MATTER OF:)	
)	
DETERMINATION OF RATES)	Docket No.
AND TERMS FOR MAKING AND)	16-CRB-0003-PR
DISTRIBUTING PHONORECORDS)	(2018-2022)
(PHONORECORDS III),)	
	- X	

OPEN SESSION

Pages: 2287 through 2648 (with excerpts)

Place: Washington, D.C.

Date: March 22, 2017

HERITAGE REPORTING CORPORATION

Official Reporters
1220 L Street, N.W., Suite 206
Washington, D.C. 20005
(202) 628-4888
contracts@hrccourtreporters.com

1	UNITED STATES COPYRIGHT ROYALTY JUDGES
2	The Library of Congress
3	X
4	IN THE MATTER OF:)
5)
6	DETERMINATION OF RATES) Docket No.
7	AND TERMS FOR MAKING AND) 16-CRB-0003-PR
8	DISTRIBUTING PHONORECORDS) (2018-2022)
9	(PHONORECORDS III),)
10	X
11	BEFORE: THE HONORABLE SUZANNE BARNETT
12	THE HONORABLE JESSE M. FEDER
13	THE HONORABLE DAVID R. STRICKLER
14	Copyright Royalty Judges
15	
16	Library of Congress
17	Madison Building
18	101 Independence Avenue, S.E.
19	Washington, D.C.
20	
21	March 22, 2017
22	9:09 a.m.
23	VOLUME IX
24	Reported by:
25	Karen Brynteson, RMR, CRR, FAPR

1	APPEARANCES:
2	Counsel for National Music Publishers Association,
3	Nashville Songwriters Association International:
4	DAVID ZAKARIN, ESQ.
5	BENJAMIN K. SEMEL, ESQ.
6	FRANK SCIBILIA, ESQ.
7	LISA M. BUCKLEY, ESQ.
8	JAMES A. JANOWITZ, ESQ.
9	JOSH WEIGENSBERG, ESQ.
10	MARION HARRIS, ESQ.
11	WILLIAM L. CHARRON, ESQ.
12	KAVERI B. ARORA, ESQ.
13	Pryor Cashman, LLP
14	Seven Times Square
15	New York, New York 10036
16	212-421-4100
17	Counsel for Apple Music, Inc.:
18	DALE CENDALI, ESQ.
19	CLAUDIA RAY, ESQ.
20	MARY MAZZELLO, ESQ.
21	JOHANNA SCHMITT, ESQ.
22	Kirkland & Ellis, LLP
23	601 Lexington Avenue
24	New York, New York 10022
25	212-446-4800

1	APPEARANCES (Continued):
2	Counsel f	or Pandora Media, Inc.:
3	PE	TER D. ISAKOFF, ESQ.
4	We	il Gotshal & Manges, LLP
5	19	00 Eye Street, N.W.
6	Su	ite 900
7	Wa	shington, D.C. 20005
8	20	2-882-7155
9		
10	BE	NJAMIN E. MARKS, ESQ.
11	JE	NNIFER RAMOS, ESQ.
12	JA	COB B. EBIN, ESQ.
13	We	il, Gotshal & Manges, LLP
14	76	7 Fifth Avenue
15	Ne	w York, New York 10153-0119
16	21	2-310-8029
17		
18	DA	VID SINGH, ESQ.
19	НО	NG-AN TRAN, ESQ.
20	We	il, Gotshal & Manges LLP
21	20	1 Redwood Shores Parkway
22	Re	dwood Shores, CA 94065
23	65	0-802-3000
24		
25		

1	APPEARANCES	(Continued):
2	Counsel	for Spotify USA, Inc.:
3		A. JOHN P. MANCINI, ESQ.
4		Mayer Brown LLP
5		1221 Avenue of the Americas
6		New York, New York 10020
7		212-506-2295
8		
9		RICHARD M. ASSMUS, ESQ.
10		Mayer Brown LLP
11		71 S. Wacker Drive
12		Chicago, Illinois 60606
13		312-782-0600
14		
15		PETER O. SCHMIDT, ESQ.
16		Mayer Brown LLP
17		1999 K Street, N.W.
18		Washington, D.C. 20006
19		202-263-3000
20		
21		
22		
23		
24		
25		

1	APPEARANCES (Continued):
2	Counsel for Amazon Prime Music:
3	MICHAEL S. ELKIN, ESQ.
4	THOMAS PATRICK LANE, ESQ.
5	DANIEL N. GUISBOND, ESQ.
6	STACEY FOLTZ STARK, ESQ.
7	Winston & Strawn, LLP
8	200 Park Avenue
9	New York, New York 10166
10	212-294-6700
11	
12	Counsel for Google, Inc.:
13	KENNETH STEINTHAL, ESQ.
14	JOSEPH WETZEL, ESQ.
15	DAVID P. MATTERN, ESQ.
16	KATHERINE E. MERK, ESQ.
17	King & Spalding, LLP
18	101 Second Street
19	Suite 2300
20	San Francisco, CA 94105
21	415-318-12114
22	
23	
24	
25	

1	PROCEEDINGS
2	(9:09 a.m.)
3	JUDGE BARNETT: Good morning. Please be
4	seated.
5	MR. STEINTHAL: Your Honor, the Services,
6	other than Apple, call David Pakman as our next
7	witness.
8	JUDGE BARNETT: Thank you, Mr. Steinthal.
9	Whereupon
10	DAVID PAKMAN,
11	having been first duly sworn, was examined and
12	testified as follows:
13	JUDGE BARNETT: Please be seated.
14	DIRECT EXAMINATION
15	BY MR. STEINTHAL:
16	Q. Good morning, Mr. Pakman.
17	A. Good morning.
18	Q. Could you please state your full name for
19	the record?
20	A. David Pakman.
21	Q. And where do you currently work?
22	JUDGE BARNETT: I'm sorry. Would you
23	spell your last name
24	THE WITNESS: Yes.
25	JUDGE BARNETT: because it seems to be

- 1 missing a letter.
- 2 THE WITNESS: Thank you. It's
- $3 \quad P-a-k-m-a-n$.
- JUDGE BARNETT: Thank you.
- 5 BY MR. STEINTHAL:
- 6 Q. Where do you currently work, sir?
- 7 A. I'm a partner at Venrock.
- 8 Q. And what is Venrock?
- 9 A. Venrock is one of the oldest venture
- 10 capital firms. We invest capital in small emerging
- 11 technology and healthcare companies, work with them
- 12 and try to grow them into large successful
- 13 enterprises.
- Q. And before getting into the details about
- 15 Venrock and what you do there, can you tell us,
- 16 please, about your career prior to coming to
- 17 Venrock?
- 18 A. Sure. I have a computer science
- 19 engineering degree from Penn, and after graduating
- 20 from Penn, I moved to Cupertino and I worked for
- 21 Apple, where I held largely two roles. First, I was
- 22 a product manager working in the system software
- 23 team and shipped a number of software products. And
- 24 then I was the cocreator of Apple's first music
- 25 group.

- 1 Q. And what was the music group doing at the
- 2 time you were working at Apple?
- 3 A. We were really observing that there was a
- 4 transition occurring from analog-to-digital music
- 5 and working to build tools and technologies that
- 6 would aid in that transition.
- Q. When you left Apple, did Apple have, as
- 8 of then, a consumer-facing music business?
- 9 A. No, Apple did not. This was before the
- 10 iPod and iTunes and the music store.
- 11 Q. What did you do after Apple?
- 12 A. So after Apple, I joined a startup called
- 13 N2K. It was one of the first digital music
- 14 companies ever created. And it operated really one
- 15 of the first on-line retail stores for the sale of
- 16 CDs. It was called MusicBlvd. I was the head of
- 17 product and business development there. And I also
- 18 launched a service called e-mod, which was I think
- 19 one of the very first digital download services
- 20 where we sold music a la carte.
- Q. And during what time frame were you at
- 22 N2K?
- A. This was 1997 to 1999, around that time.
- Q. And what did you do after N2K?
- 25 A. In 1999, I became co-founder of my first

- 1 company. It was called MyPlay. And it was a
- 2 digital music company also. It was the pioneer of
- 3 the digital music locker. This was an on-line
- 4 repository for the uploading and storage of your
- 5 MP3s or digital downloads to allow you to stream
- 6 them back to yourself on -- on multiple devices.
- 7 Q. And what did you do after your -- your
- 8 time at MyPlay?
- 9 A. After MyPlay, I joined a small private
- 10 equity group called Dimensional Associates. We had
- 11 a pool of capital and we bought in their entirety
- 12 several digital music companies and operated them
- 13 ourselves. One of them called The Orchard, a
- 14 digital distributor, and one was eMusic, which was a
- 15 digital music service that I became the COO of and
- 16 then the CEO for a total of five years.
- 17 O. After Venrock, can you give us some
- 18 examples of the companies Venrock has invested in?
- 19 A. Yes, sure. Venrock was the first
- 20 institutional investor in Apple in 1977. Venrock
- 21 invested in Intel, the creators of the
- 22 microprocessor very early on. More recently we've
- 23 invested in companies like Nest, the smart
- 24 thermostat company, which was sold to Google. We
- 25 led series A and series B rounds in Dollar Shave

- 1 Club.
- 2 Q. At Venrock, do you have any area of
- 3 investment on which you focus?
- 4 A. I focus broadly on technology companies,
- 5 early stage, and my investment activities is split
- 6 pretty evenly between enterprise companies, as
- 7 they're largely companies creating software and
- 8 services for enterprises, and consumer companies,
- 9 pretty broadly, consumer products companies,
- 10 creative physical products, consumer services and --
- 11 and consumer apps and --
- 12 O. What kind of review and analysis does
- 13 Venrock undertake with respect to potential
- 14 investments?
- 15 A. Well, if it's a company that doesn't
- 16 really fit our investment criteria, we don't do a
- 17 lot of work on. But if it is one that we're
- 18 interested in, we do a significant amount of work.
- 19 We evaluate the team behind the -- the company, their
- 20 ambitions, their backgrounds, motivations, their
- 21 experiences. We evaluate the market. Is it a
- 22 growing market? Is there room for competition? Is
- 23 the -- is the market emerging or mature?
- We evaluate the business models of the
- 25 companies, their potential margin structure and

- 1 pricing. And we evaluate the product, which is the
- 2 -- the thing that is that they are trying to build.
- Q. Do you, as part of this process, consider
- 4 the ability of a company under review to generate a
- 5 profit in the long term?
- A. Yes, absolutely. The business model,
- 7 their margins and their ability to become
- 8 profitable, is a crucial determination. You have to
- 9 believe that they'll eventually become profitable.
- 10 Otherwise, we'll have to continuously invest in them
- 11 for them to survive.
- 12 Q. Do you have any experience at Venrock
- 13 with potential investments in digital music
- 14 services?
- 15 A. I have reviewed scores of potential
- 16 investments in digital music. Largely because of my
- 17 background and experience in the industry, I'm
- 18 sought after by a number of entrepreneurs that are
- 19 considering launching digital music companies. So I
- 20 have reviewed many, but at my time at Venrock, we
- 21 have never invested in any digital music services or
- 22 companies.
- Q. What are the factors that Venrock has
- 24 considered applicable to potential investments in
- 25 digital music services?

- 1 A. It's a challenged market. There is high
- 2 royalty costs, and that results in low margins.
- 3 These companies often have low margins and are
- 4 unable to get profitable, and -- and as a result,
- 5 they tend to fail at high rates. And we're -- so
- 6 this is a market that's not in favor by Venrock.
- 7 Q. Have you testified before the Copyright
- 8 Royalty Board and its predecessor body before?
- 9 A. I have. I testified as an expert witness
- 10 in Web IV, and I was a participant in the CARP Web
- 11 I.
- MR. STEINTHAL: Your Honors, we offer
- 13 Mr. Pakman as an expert in investment in the digital
- 14 music industry.
- 15 MR. CHARRON: Good morning, Your Honors.
- 16 My name is William Charron from Pryor Cashman on
- 17 behalf of Copyright Owners. We do object to
- 18 Mr. Pakman. I realize that I'll be doing a
- 19 cross-examination to support that, and I don't want
- 20 to take up time now. I just wanted to note -- note
- 21 our objection to Mr. Pakman and his report.
- JUDGE BARNETT: Are you objecting to his
- 23 being qualified as an expert?
- MR. CHARRON: In connection with his --
- 25 what he has offered as his opinion in his report in

- 1 this proceeding, yes.
- 2 JUDGE STRICKLER: Are you objecting to
- 3 him -- well, let me ask the question first, counsel.
- 4 Are you -- are you offering him as a fact witness as
- 5 well or only as an expert witness?
- 6 MR. STEINTHAL: No, only as an expert.
- 7 MR. CHARRON: I just wanted to reserve.
- 8 JUDGE BARNETT: Well, the objection is
- 9 overruled. I think he has established his
- 10 background and -- and qualifications to testify as
- 11 an expert in that area.
- MR. CHARRON: Thank you.
- 13 JUDGE STRICKLER: Could you describe the
- 14 area again you asked for him to be qualified?
- 15 MR. STEINTHAL: Investment in the digital
- 16 music industry.
- 17 JUDGE STRICKLER: I quess he's an expert
- 18 in the non-investment in the digital music industry.
- MR. STEINTHAL: Well, the criteria
- 20 associated with investing or not investing in the
- 21 digital music industry, as the case may be. Some
- 22 people have. Some people haven't.
- JUDGE STRICKLER: That sounds more
- 24 accurate.
- 25 BY MR. STEINTHAL:

- 1 Q. Mr. Pakman, please turn to Google Trial
- 2 Exhibit 696 in your binder.
- 3 A. Okay.
- 4 O. Is that your written direct testimony?
- 5 A. Yes, it is.
- 6 Q. And is that your signature on page 20?
- 7 A. Page 21, yes.
- 8 MR. STEINTHAL: We move to admit
- 9 Exhibit 696, Mr. Pakman's written direct testimony.
- 10 MR. CHARRON: And same objection. I
- 11 realize I'll be doing that through
- 12 cross-examination.
- JUDGE BARNETT: What is that? What is
- 14 the basis of that objection?
- 15 MR. CHARRON: Well, I think the
- 16 cross-examination will establish that there is,
- 17 again, a lack of qualifications with respect to the
- 18 opinions he has offered.
- 19 Two, a lack of an adequate methodology
- 20 and, three, a lack of reliability.
- 21 JUDGE STRICKLER: And you didn't want do
- 22 that as a voir dire before he was qualified?
- 23 MR. CHARRON: I could do a voir dire. It
- 24 would be my cross-examination. It would be somewhat
- 25 lengthy, I believe.

- 1 JUDGE BARNETT: 696 is admitted.
- 2 (Google Exhibit Number 696 was marked and
- 3 received into evidence.)
- JUDGE BARNETT: 696 is admitted.
- 5 BY MR. STEINTHAL:
- Q. Mr. Pakman, what was your assignment in
- 7 this case?
- 8 A. I was asked to provide an opinion on an
- 9 assessment of the impact of rates and terms for the
- 10 making and distributing of phonorecords on
- 11 interactive digital music services and investors'
- 12 willingness to invest in the sector.
- Q. And when you talk about investors, are
- 14 you talking about venture capital investors?
- 15 A. Yes, venture capital investors.
- 16 Q. Could you briefly summarize the opinions
- 17 that you reached?
- 18 A. Yes. My research showed that companies
- 19 in this space have royalty obligations and the
- 20 payment of those royalties leaves very little margin
- 21 left for the company. They experience low gross
- 22 margins. These low gross margins result in a lack
- 23 of profitability, and the lack of profitability
- 24 leads to an inordinately high failure rate,
- 25 particularly when compared with other industries.

- 1 This high failure rate has led to a
- 2 disfavoring of this sector from venture capital
- 3 investors.
- JUDGE STRICKLER: Mr. Pakman, I want to
- 5 follow up. Good morning, by the way. Good to see
- 6 you again.
- 7 THE WITNESS: Thank you. Nice to see
- 8 you.
- 9 JUDGE STRICKLER: You've been qualified
- 10 as an expert in the industry at large, so you're not
- 11 a fact witness here speaking merely with regard to
- 12 your experience at Venrock.
- 13 THE WITNESS: Correct.
- JUDGE STRICKLER: So you've testified
- 15 that Venrock will not invest in digital music
- 16 businesses. Is it your testimony that no other
- 17 venture capital firms will invest in digital music
- 18 services?
- 19 THE WITNESS: No. My testimony is, when
- 20 compared with other industries, venture capital
- 21 investors appear to invest at far lower rates into
- 22 far fewer companies, but I can't speak for every
- 23 venture capital firm.
- 24 JUDGE STRICKLER: I -- I understand you
- 25 might not be able to speak for every firm on a

- 1 firm-by-firm basis, but since you're qualified as an
- 2 expert in the industry, you're saying the industry
- 3 does invest in digital music services but at lower
- 4 levels?
- 5 THE WITNESS: Yes, fewer companies and
- 6 fewer dollars than when compared to the other
- 7 choices that -- in other segments that venture
- 8 investors invest in.
- JUDGE STRICKLER: When you say "fewer,"
- 10 what metric are you using when you say "fewer"?
- 11 THE WITNESS: Number of companies and
- 12 dollars.
- JUDGE STRICKLER: Is it lower percentage
- 14 of companies in the industry as well as the absolute
- 15 numbers?
- 16 THE WITNESS: Both -- both an absolute
- 17 number of companies. There are fewer absolute
- 18 number of companies -- there are fewer absolute
- 19 number of digital music companies that receive
- 20 venture investment than in other sectors, and --
- 21 well, that's -- that's my statement.
- JUDGE STRICKLER: And the -- and the
- 23 smaller amount of investment, is that -- is that
- 24 also a metric that's done on a percentage basis,
- 25 whether it's a percentage of -- of book value or --

- 1 or some other value?
- THE WITNESS: I didn't make the
- 3 determination of relative amount of dollars into
- 4 this industry versus others.
- 5 JUDGE STRICKLER: Thank you.
- JUDGE BARNETT: So when you say the
- 7 investment rates are lower in digital music than in
- 8 other sectors, do you mean other digital sectors --
- 9 THE WITNESS: Others --
- JUDGE BARNETT: -- or manufacturing?
- 11 THE WITNESS: Yes, Your Honor, other
- 12 technology sectors. Particularly speaking about
- 13 technology-focused venture capitalists, so venture
- 14 capitalists who invest in technology businesses.
- 15 It's very broad. I looked at a number of sectors,
- 16 and I compared investment in digital music to
- 17 investment in other technology sectors.
- 18 JUDGE BARNETT: Thank you.
- 19 BY MR. STEINTHAL:
- 20 Q. Mr. Pakman, could you, actually following
- 21 up on the questions from the panel, tell us what
- 22 kind of analysis you did to underlie the opinion you
- 23 just gave?
- 24 A. Yes, sure. So I -- I concluded -- I
- 25 looked at a number of different sources of

- 1 information. I looked at publicly-available
- 2 information and research reports. I used my own
- 3 personal experience, professional experience, and I
- 4 consulted the PitchBook database. And I looked at
- 5 the number of companies that have been invested by
- 6 venture capitalists in digital music, and I also
- 7 looked at the mobile sector, the software as a
- 8 service sector, and the eCommerce sector.
- 9 Q. Why did you choose those three other
- 10 sectors for purposes of the comparative analysis
- 11 that you did?
- 12 A. Venture capitalists have a choice about
- 13 where we will invest. And those other sectors are
- 14 all branches of the same technology industry in
- 15 general into which venture capitalists make
- 16 investments.
- 17 Q. And I believe you -- you mentioned
- 18 research materials from PitchBook. What is
- 19 PitchBook?
- 20 A. Yes. PitchBook is a database available
- 21 to anyone who is a subscriber. It's frequently used
- 22 by venture capitalists and financial service
- 23 industry professionals. It's a database of more
- 24 than 850,000 private companies and more than 70,000
- 25 public companies.

- 1 And it includes a rich amount of
- 2 information about each of those companies, the names
- 3 of the companies, the businesses they are in, the
- 4 executives of the companies, who the investors were,
- 5 how much money the investors put in, sometimes under
- 6 what terms, and the outcome of the companies, what
- 7 happened to them.
- 8 Q. Did you apply any date or time period
- 9 parameters for your search?
- 10 A. I did not. I searched the entirety of
- 11 PitchBook's database through their entire history.
- JUDGE FEDER: How far back is that?
- 13 THE WITNESS: So the PitchBook was
- 14 founded in 2007, but their company history, the data
- 15 in the database goes back considerably farther than
- 16 that. I don't know the earliest date of their
- 17 entire database, but, for instance, when searching
- 18 for digital music companies and mobile and SaaS and
- 19 enterprise -- excuse me -- eCommerce, I found
- 20 companies dating back to 1992, for example.
- JUDGE FEDER: For purposes of this
- 22 analysis, how do you define mobile, SaaS, and
- 23 eCommerce? And is there any overlap between those?
- 24 THE WITNESS: Yeah, sure. So in -- in
- 25 this analysis, I used PitchBook's search criteria.

- 1 I -- for mobile, eCommerce, and SaaS. I first
- 2 selected VC-backed universe, which are all companies
- 3 that have received some or more amount of venture
- 4 capital investment.
- 5 And I simply used their mobile, SaaS, and
- 6 eCommerce sorting criteria. I don't believe there's
- 7 a lot of overlap, but -- among those, but I didn't
- 8 confirm whether each of those was purely unique.
- 9 The PitchBook tends to classify into a single broad
- 10 category, which is why I selected those categories.
- JUDGE FEDER: Thank you.
- 12 BY MR. STEINTHAL:
- 13 Q. What did your research reveal about the
- 14 volume of VC-backed investments in digital music
- 15 companies compared to the other three sectors you
- 16 analyzed?
- 17 MR. STEINTHAL: And at this point, Your
- 18 Honors, we -- we did a -- one demonstrative which is
- 19 drawn from Mr. Pakman's written direct testimony
- 20 that we've put on the board.
- 21 THE WITNESS: My research revealed that
- 22 there is a -- there are vastly fewer venture capital
- 23 -- venture capital-backed companies in digital music
- 24 than there are in mobile, SaaS, or eCommerce. Some
- 25 -- sometimes in about an order of magnitude

- 1 difference, 239 digital music companies that were
- 2 venture-backed compared to about 11,000 mobile,
- 3 almost 14,000 SaaS, and about 4800 eCommerce.
- 4 BY MR. STEINTHAL:
- 5 Q. By the way, can you walk us through the
- 6 process by which you got to the 239 VC-backed
- 7 digital music companies?
- 8 A. Yes. So, first, I selected the same
- 9 venture-backed universe criteria as I did for
- 10 mobile, SaaS, and eCommerce. I selected B to C.
- 11 This would be companies engaging in something
- 12 related to directly to consumers.
- And I used the key word "music" to try to
- 14 capture every company that had anything to do with
- 15 music. This resulted in 1,136 companies, but this
- 16 was a super set of digital music companies.
- 17 So in order to go from the 1,136 to the
- 18 239, I had to go through every single company,
- 19 perform research and analysis to figure out whether
- 20 they were a digital music company. And so I
- 21 discussed in my written testimony what the
- 22 definition I used for digital music company, being a
- 23 company engaged in requiring a licensing of music,
- 24 providing music-related consumer utility or Internet
- 25 radio services.

- JUDGE STRICKLER: What paragraph are you
- 2 reading from?
- THE WITNESS: I'm sorry, yes, page 12, it
- 4 is footnote -- footnote 15 beginning on 11 and
- 5 ending on 12.
- JUDGE STRICKLER: Thank you.
- 7 THE WITNESS: So that is -- so after
- 8 going through all -- all 1,136 companies, I removed
- 9 897 that did not meet this criteria, and that led to
- 10 239 digital music companies.
- 11 BY MR. STEINTHAL:
- 12 Q. I'm going to come back to this briefly
- 13 later when we talk about Mr. Timmins' criticisms of
- 14 your testimony. But let me ask you this question
- 15 now.
- 16 What does the far fewer number of
- 17 VC-backed entrants in the digital music business
- 18 tell you about that business relative to the other
- 19 sectors that you analyzed?
- 20 A. Well, it means one of the following are
- 21 true: It either means that there are fewer
- 22 entrepreneurs creating digital music companies, or
- 23 it means that there are fewer venture capitalists
- 24 investing in them, or a combination of both of
- 25 those.

- I think you can conclude that this is an
- 2 industry that has less venture activity than other
- 3 industries and that it's largely disfavored by
- 4 venture investors.
- 5 Q. Did you make any observations as well
- 6 from the data in PitchBook regarding the failure
- 7 rates of digital music companies compared to
- 8 investments in the other sectors you analyzed?
- 9 A. Yes. PitchBook also tracks outcomes of
- 10 companies. So in each of these categories, I also
- 11 searched PitchBook to determine which companies had
- 12 a distressed exit, which means that they filed for
- 13 bankruptcy, they filed for reorganization, or they
- 14 went out of business.
- And that produced in digital music thus
- 16 far, as of the date of the search, 37 companies,
- 17 which had a distressed exit, which is about a
- 18 15 percent failure rate. And mobile, SaaS, and
- 19 eCommerce had a failure rate of about 7 to
- 20 8 percent.
- 21 So digital music companies are failing at
- 22 about twice the failure rate of these other sectors.
- 23 Q. And is that captured on the demonstrative
- 24 as well?
- JUDGE BARNETT: You have to answer

- 1 audibly.
- THE WITNESS: I'm sorry, yes, it is.
- 3 BY MR. STEINTHAL:
- Q. Mr. Pakman, are you aware that there have
- 5 been witnesses from the Copyright Owners' side who
- 6 have filed testimony in response to your opinions?
- 7 A. Yes, I am.
- 8 Q. And have you read the testimony of
- 9 Jim Timmins responding to your testimony?
- 10 A. Yes, I have.
- 11 Q. First off, is Mr. Timmins correct that it
- 12 is not possible to replicate the analysis that you
- 13 performed in PitchBook?
- 14 A. No, he is not correct. I disclosed the
- 15 search criteria used expressly in my testimony and
- 16 anyone with access to PitchBook would have been able
- 17 to re-create the same searches.
- 18 Q. Is access to PitchBook available to
- 19 someone like Mr. Timmins?
- 20 A. It is. PitchBook access is available to
- 21 anyone who becomes a subscriber, but I also
- 22 understand that anyone who is an NVCA member, the
- 23 National Venture Capital Association, of which I
- 24 believe Mr. Timmins is, gets some free access
- 25 available and could have performed a number of these

- 1 searches.
- 2 Q. Now, I'm going to quote Mr. Timmins'
- 3 testimony in his written direct testimony in terms
- 4 of criticisms he has leveled and try to get your
- 5 responses to that. In paragraph 57 --
- JUDGE FEDER: Excuse me, Mr. Steinthal.
- 7 Is it written direct or written rebuttal?
- 8 MR. STEINTHAL: I'm sorry. Written
- 9 rebuttal. Mr. Timmins only submitted rebuttal
- 10 testimony.
- 11 BY MR. STEINTHAL:
- 12 Q. In paragraph 57 of his testimony, he
- 13 states that you "failed to identify the total number
- 14 of companies in the PitchBook Platform you searched
- 15 or the time period for the searches" you conducted.
- 16 How do you respond to that?
- 17 A. I searched the entirety of the PitchBook
- 18 database, and I did not date-limit the search in any
- 19 way.
- 20 Q. And could Mr. Timmins have done the same
- 21 thing?
- 22 A. He could have.
- Q. By the way, were you able to export a
- 24 file reflecting your entire PitchBook search and
- 25 results?

- 1 A. I was not. Largely for two reasons.
- 2 One, PitchBook has very limited export ability.
- 3 They don't want you to take their database and --
- 4 and be able to export it. So you can only export
- 5 around 100 records per day. These searches resulted
- 6 in tens of thousands of search results.
- 7 And, in addition, PitchBook has terms of
- 8 service that prevent you from exporting some every
- 9 day to try to go around that limitation for -- and
- 10 to distribute any of these exported results, so I
- 11 was not able to export them.
- 12 Q. Okay. Now, also in paragraph 57 of his
- 13 rebuttal testimony, Mr. Timmins says that you used
- 14 different codes for different sectors in your
- 15 analysis. And he says specifically, and I quote,
- 16 "you used the 'VC-backed' code when searching for
- 17 venture-backed companies and comparable sectors but
- 18 not when trying to identify venture-backed companies
- 19 in the digital music sector."
- Is he correct?
- 21 A. He's not. I used the same VC universe,
- 22 VC-backed universe search criteria for all of the
- 23 searches.
- Q. Also in paragraph 57 of his rebuttal
- 25 testimony, Mr. Timmins criticizes you, claiming that

- 1 you "failed to run more than an initial query" in
- 2 the PitchBook platform to corroborate or supplement
- 3 the results of your 'initial query.'"
- 4 Did you run just one query?
- 5 A. I did not. I ran scores of queries to
- 6 figure out which search criteria would produce, one,
- 7 the most accurate but, two, the most comprehensive
- 8 results suitable for the research, and I disclosed
- 9 the methods I chose that yielded such results.
- 10 Q. Continuing with Mr. Timmins' criticisms,
- 11 in paragraph 58 of his rebuttal testimony, he says
- 12 that you had no basis for "excluding 897 companies
- 13 which were not companies in a business requiring the
- 14 licensing of music or providing music-related
- 15 consumer utilities."
- This is the subject you mentioned earlier
- 17 a little bit. Can you tell us in a little bit more
- 18 detail what you did for purposes of excluding those
- 19 897 companies to get down to the smaller 230 some
- 20 odd digital music company investments?
- 21 A. Sure. I had to review every one of the
- 22 1136. I utilized my own familiarity with the
- 23 companies. I utilized the companies' information
- 24 themselves, what they say they do. I utilized
- 25 PitchBook's information about what those companies

- 1 do. And I researched publicly-available information
- 2 to determine whether they fit this criteria.
- 3 Q. Now, in paragraph 59 of his testimony,
- 4 his rebuttal testimony, Mr. Timmins criticizes you
- 5 for not including Google and Amazon investments in
- 6 the digital music industry in your results.
- 7 Why did you not include them?
- 8 A. This is a search of venture-backed
- 9 digital music companies. While Amazon and Google
- 10 were venture-backed companies some 15 or 22 years
- 11 ago when they were created, something like that,
- 12 they were not engaged in digital music activities at
- 13 that time, and so they would not have fit the
- 14 criteria of a venture-backed digital music company.
- 15 They came to engage in digital music many years
- 16 later, in both cases after their venture investors
- 17 had exited.
- 18 Q. In paragraph 59 as well of his rebuttal
- 19 report, Mr. Timmins claims that your "search and
- 20 exclusion criteria were not tailored to limit your
- 21 results to digital music streaming services and, in
- 22 fact, may not even be tailored to capture only
- 23 digital music services. Brick-and-mortar music
- 24 retailers and other non-digital music services would
- 25 appear to fit within Mr. Pakman 's search and

- 1 exclusion criteria."
- 2 Is that accusation by Mr. Timmins well
- 3 founded?
- A. It is not. In reviewing all 1,136
- 5 companies to determine which were digital music
- 6 companies, I excluded brick-and-mortar, but it does
- 7 capture companies broader than just interactive
- 8 digital streaming companies. It includes, for
- 9 instance, digital download companies. I understand
- 10 that they also require a mechanical license, and so
- 11 they're relevant to this discussion.
- Q. Next, are you aware that Mr. Timmins, in
- 13 paragraph 63, claims that you "employed a double
- 14 standard" for what you consider a successful exit
- 15 for a company from a digital music service as
- 16 compared to exits from the other sectors you
- 17 examined?
- 18 A. Yes.
- 19 Q. What was the definition you used for
- 20 successful exits in the mobile, eCommerce, and SaaS
- 21 markets you examined as discussed for reference
- 22 purposes on the panel in paragraph 27-B on page 13
- 23 of your testimony?
- A. So I also used PitchBook to determine the
- 25 outcomes of companies. And I searched for -- for

- 1 mobile and for eCommerce and for SaaS. I looked to
- 2 determine how many of those companies had profitable
- 3 exits for their investors.
- 4 This would mean the investors received
- 5 their capital back, their original investment
- 6 capital, plus one or more dollars. And that's the
- 7 results for successful investments. And I think
- 8 you'll see in -- in my research that that resulted
- 9 in success rates of around 20 to 35 percent.
- 10 Q. Okay. And --
- JUDGE STRICKLER: Why would you define
- 12 success as just one dollar more than investment
- 13 because if that's lower than the market rate of
- 14 return, the opportunity cost is such that they
- 15 really lost money from an economic point of view?
- 16 Wouldn't that be so?
- 17 THE WITNESS: Yes. First, I wanted to
- 18 just determine which ones received some modicum of
- 19 success, that one could argue that their investors
- 20 made one dollar or more. I agree with you that that
- 21 standard would not be sufficient for most venture
- 22 capitalists and most investors, but to get a basis
- 23 for an apples-to-apples comparison, that's what I
- 24 started with.
- 25 JUDGE STRICKLER: That's what you started

- 1 with. Did you then become more refined to see
- 2 whether the rate of return from these companies that
- 3 you either put in the failure or success box met the
- 4 market rate of return as you -- as you calculated or
- 5 estimated it?
- 6 THE WITNESS: I do think that's a good
- 7 question. I did not perform that analysis for
- 8 mobile, for enterprise -- for SaaS, and for
- 9 eCommerce. However, in my testimony, I do propose a
- 10 hurdle rate, not a rate, but I proposed a hurdle of
- 11 25 million dollars in total return to the -- to the
- 12 investors, and I determined that only 7 of the
- 13 digital music companies met that rate.
- Now, you may be curious why did I choose
- 15 the 25 million dollars?
- 16 JUDGE STRICKLER: I'm not --
- 17 THE WITNESS: Okay.
- 18 JUDGE STRICKLER: -- but I'm also
- 19 curious, did you use -- was the 25 million dollar
- 20 hurdle only in the digital music area?
- 21 THE WITNESS: I did. I just used the
- 22 basis of comparison for just a basic determination
- 23 of whether investors can at least get their money
- 24 out and make a little bit of money across all four
- 25 sectors.

- 1 JUDGE STRICKLER: But the 25 million was
- 2 just on the digital music service?
- 3 THE WITNESS: Correct.
- JUDGE STRICKLER: Okay. So now my other
- 5 curiosity, as you correctly identified it, why 25
- 6 million in the digital music service?
- 7 THE WITNESS: Yes. Yes, sure. So when
- 8 venture capitalists make investments, the period,
- 9 the holding period is quite long. In most cases --
- 10 well, the average holding period for early-stage
- 11 venture investors is eight years, sometimes as long
- 12 as ten years, and the risks are high.
- So commensurate with the size of the fund
- 14 and the number of investments a venture capitalist
- 15 makes, we need to achieve some certain amount of
- 16 total dollars back, 25 million dollars would be
- 17 considered by most funds our size, early-stage
- 18 venture funds, a meaningful venture return. It
- 19 would be a minimum, but it would be a meaningful
- 20 one.
- JUDGE STRICKLER: 25 million would
- 22 represent a percentage of -- of return of what on
- 23 the -- on the venture capital investment?
- 24 THE WITNESS: Well, it would depend on
- 25 how much money they put in, right?

- 1 JUDGE STRICKLER: That's my point, yeah.
- 2 THE WITNESS: But early-stage venture
- 3 capitalists -- I'm speaking very generally here --
- 4 usually invest somewhere between 2 to 8 billion
- 5 dollars. And so -- and it depends on how much total
- 6 money the -- the company raised, but it could
- 7 represent a 5 -- a 3X or a 5X.
- 8 JUDGE STRICKLER: And you had no hurdle
- 9 where you say for the -- for the other comparators?
- THE WITNESS: I did not do that analysis.
- 11 JUDGE STRICKLER: And the effect -- do
- 12 you think that the absence of having any kind of a
- 13 hurdle rate skews the -- not skews the analysis --
- 14 but makes the analysis in some sense less than
- 15 accurate?
- 16 THE WITNESS: Well, it doesn't make it
- 17 less than accurate, but I think I was being
- 18 conservative here in the terms of the definition of
- 19 what -- on what an investor would look for and what
- 20 an investor -- what would be considered successful.
- 21 When looking at just this definition of
- 22 profitable investment, one or more dollars, it --
- 23 the -- the analysis showed that the success rate in
- 24 these other sectors, mobile, eCommerce, and SaaS,
- 25 are 2 to 3X that, the success rate in digital music.

- JUDGE STRICKLER: And when you -- counsel
- 2 may be getting into it, so I may be jumping ahead,
- 3 in which case, but --
- 4 MR. STEINTHAL: By all means.
- JUDGE STRICKLER: You -- how do you
- 6 define success in terms of what happened? Was it --
- 7 was it an operating income that was sufficient or a
- 8 return to the shareholders that was -- or venture
- 9 capitalists that was sufficient? And I know -- and
- 10 this is where I may be getting ahead of your
- 11 testimony and counsel's questions, whether or not a
- 12 firm exited by way of merger or some other
- 13 consolidation? Are you going to be -- I assume
- 14 you're going to be speaking to that soon, so maybe
- 15 I'll let counsel do it in his more organized
- 16 fashion.
- 17 BY MR. STEINTHAL:
- O. Well, I mean, just to follow up on the
- 19 Judge's question, your definition, in paragraph 27-B
- 20 on page 13, of a profitable exit that you testified
- 21 to, that the investors got at least their money back
- 22 and one dollar --
- 23 A. Or more.
- 24 O. -- when they exited, was that data that
- 25 was collected and available within PitchBook?

- 1 A. Yes, PitchBook has search criteria for
- 2 profitable investment.
- Q. And is that why you used that as the
- 4 criteria for assessing whether there was a
- 5 "successful exit"?
- 6 A. I did.
- 7 JUDGE STRICKLER: So when you say they
- 8 were successful by getting back their -- their
- 9 investment plus a dollar, was that --
- 10 THE WITNESS: Or more.
- JUDGE STRICKLER: Or more. Was that both
- 12 in terms of asset value that they cashed out and
- 13 were able to sell their equity interest for whatever
- 14 they put in plus a dollar or more, and did it also
- 15 include income stream that on some sort of a cash
- 16 flow basis you equated to getting -- to getting a
- 17 return plus at least a dollar more? Was it both of
- 18 those or just one of those?
- 19 THE WITNESS: So I -- I believe that
- 20 PitchBook's definition of profitable exit includes
- 21 some measure of cash-on-cash return. So probably --
- 22 I don't know for certain, I'd have to go back and
- 23 read the definition, but I'm -- I'm fairly certain
- 24 that they're talking about either cash or cash
- 25 equivalent. So either cash, like a cash buyout, or

- 1 stock that had the value at the time of the amount
- 2 of invested capital plus some.
- 3 But not the income stream that you talk
- 4 about, which would be a very uncommon exit for
- 5 venture investors.
- JUDGE STRICKLER: I realized after I
- 7 asked the question, that exit and -- and income
- 8 stream could be mutually exclusive, so it might have
- 9 been a bad question.
- 10 So I just want to understand your
- 11 categories. You have a success category, a failure
- 12 -- a success bucket and a failure bucket.
- 13 THE WITNESS: Yes.
- 14 JUDGE STRICKLER: Have some of the
- 15 venture capitalists' investments that you have in
- 16 your report, are they still invested and they
- 17 haven't left, so -- well, let me ask, do you have
- 18 that situation too?
- 19 THE WITNESS: Yes. So the -- of the 239,
- 20 I identified only 37 that have had a distressed exit
- 21 and 63 that had some form of exit. And the rest are
- 22 ongoing, still going on.
- 23 JUDGE STRICKLER: So do you find those
- 24 that are still ongoing as successes, failures or --
- 25 THE WITNESS: I made no determination as

- 1 to whether they are yet successful or a failure. We
- 2 just -- we don't know yet.
- JUDGE STRICKLER: Thank you.
- 4 BY MR. STEINTHAL:
- 5 O. Now, Mr. Timmins criticized you for using
- 6 the 63 exit a year in paragraph 27-A of your
- 7 testimony as to the digital music services, and
- 8 that's where he claimed you did a double standard.
- Gan you explain why you used the 63 exits
- 10 in paragraph 27-A?
- 11 A. Yes. I was even more conservative in the
- 12 definition of exit for digital music. I included
- 13 any exit where the investors received even some of
- 14 their money back.
- so it could have been an economic loss
- 16 for them, but that still met the definition of exit.
- 17 And that's how I got to the 63. And that --
- Q. So if -- if you used the same definition
- 19 for a successful exit in the digital music sector as
- 20 you testified a few moments ago you used for the
- 21 other three sectors you examined in paragraph 27-B,
- 22 what would the result be?
- 23 A. So I did go back and run that search.
- 24 And the answer is 26.
- MR. CHARRON: I just object. This is

- 1 beyond his report. I mean, there has been a lot of
- 2 supplementing that's trying to be put in here, but
- 3 this is apparently a new analysis he says he has
- 4 done.
- 5 MR. STEINTHAL: This is a direct response
- 6 to Mr. Timmins' criticism. So I think I'm entitled
- 7 to -- to go into that.
- JUDGE BARNETT: You may. Overruled.
- 9 MR. CHARRON: I don't think that's fair,
- 10 but...
- 11 THE WITNESS: So I did re-run that. And
- 12 the answer is 26. So of the 239, 26 produced a --
- 13 26 companies produced a profitable exit of one
- 14 dollar or more in profit to their investors, which
- 15 is about a 10 percent success rate compared to the
- 16 20 to 35 percent in the other three sectors.
- 17 BY MR. STEINTHAL:
- 18 Q. And just to put a pin in it, responding
- 19 to Mr. Timmins' criticism, are the 26 company figure
- 20 you just gave an apples-to-apples comparison to the
- 21 successful exit criteria that you applied in
- 22 paragraph 27-B to the other three sectors?
- 23 A. Yes.
- Q. And responding to Judge Strickler's
- 25 question from a moment ago, just to be clear, what's

- 1 the difference between the 26 companies you just
- 2 mentioned that had a successful exit of at least
- 3 getting their money back and one dollar in return --
- 4 A. Or more.
- 5 Q. -- and the seven companies you identified
- 6 in paragraph 27-A that had achieved a "meaningful
- 7 venture return"?
- 8 A. Yes. So as I mentioned earlier, that
- 9 there is a hurdle to consider a real successful exit
- 10 or otherwise the venture capital model doesn't
- 11 really work. We're not able to get a large enough
- 12 return for our investors. And so I used 25 million
- 13 as a proxy relative to the fund size that many
- 14 venture investors are when they invest in
- 15 early-stage companies as the minimum for a
- 16 meaningful venture return.
- 17 Q. Now, are you aware that Mr. Timmins
- 18 disputes your testimony about the lack of investment
- 19 in the interactive music space by reference to the
- 20 fact that -- and now I'm quoting from paragraph 22
- 21 -- "many on-demand streaming services have launched
- 22 in the U.S. in the past few years." And then he
- 23 goes on to cite Slacker, Google, Apple, Amazon,
- 24 SoundCloud, iHeart, and Pandora? Are you aware of
- 25 that?

- 1 A. Yes, I'm aware of that.
- Q. How do you respond to his testimony about
- 3 those companies having launched interactive music
- 4 services?
- 5 A. These are not new entrants into the
- 6 digital music business. These are preexisting
- 7 digital music companies or companies engaged in some
- 8 digital music activity that have added some
- 9 interactive features. They've expanded their
- 10 product offering, but they're not new digital music
- 11 companies.
- 12 Q. They're not new entrants?
- 13 A. They're not new entrants.
- JUDGE STRICKLER: But it's new capital
- 15 that has been put into -- into the business. Even
- 16 if they're existing businesses with existing
- 17 services, they've enlarged the capital investment in
- 18 those services; isn't that true?
- THE WITNESS: Yes, it's not new venture
- 20 capital, and it's not new institutional capital, but
- 21 it is presumably an investment from the balance
- 22 sheets of the existing large companies.
- JUDGE STRICKLER: Why, in our setting of
- 24 rates, would we want to distinguish between venture
- 25 capital, institutional capital, and internal capital

- 1 of existing companies or companies that are going to
- 2 diversify into this in this market, this interactive
- 3 market?
- THE WITNESS: Sure. I would think, Your
- 5 Honor, that one relevant consideration would be is
- 6 there access to capital for new entrants? Are there
- 7 -- is the market healthy such that new companies can
- 8 be created to try to grow into new businesses, to
- 9 grow the pie and provide larger revenue and larger
- 10 royalties.
- JUDGE STRICKLER: Well, doesn't that --
- 12 that begs the question of why -- you may be right,
- 13 but it begs the question of why we would need new
- 14 entrants to be able to grow the pie and make the
- 15 business healthy. Why can't we also -- why couldn't
- 16 it also be the case that old entrants or bigger
- 17 companies that are trying to horizontally diversify
- 18 like an Apple or an Amazon or a Google by putting
- 19 their own internal capital in, or because they're so
- 20 big having access to institutional capital, why
- 21 can't that grow the pie -- the pie as well?
- THE WITNESS: Well, my -- my view would
- 23 be that you'd want a mixture of both to have a
- 24 healthy market because then you really are offering
- 25 consumers the most amount of choice. You have a

- 1 healthier market with lots of competition, both
- 2 small and large.
- JUDGE STRICKLER: Well, that begs two --
- 4 at least two more questions.
- 5 THE WITNESS: Okay.
- JUDGE STRICKLER: Because what does it
- 7 mean to have a -- let's take one them at a time.
- 8 What does it -- what do you mean when you say "a
- 9 healthy market"?
- 10 THE WITNESS: Well, I would -- I would
- 11 think that, first, consumer choice would be
- 12 paramount in the definition of whether a market
- 13 could be healthy. Are there a number of different
- 14 choices; therefore, a healthy competition to advance
- 15 the state of the art, to provide maybe some price
- 16 competition, to provide value competition? That
- 17 probably would be an example of a healthy market.
- JUDGE STRICKLER: That was my -- the
- 19 first question that was begged --
- THE WITNESS: Okay.
- 21 JUDGE STRICKLER: -- which leads directly
- 22 into the -- to the next question. As a venture
- 23 capitalist, why do you want the companies that you
- 24 invest in to have competition?
- 25 THE WITNESS: Well, we're -- I think

- 1 we're looking for -- I would answer the question a
- 2 little bit differently. We're looking to see
- 3 whether it's possible or maybe even likely that new
- 4 entrants can survive. If there is -- if it's an
- 5 unhealthy market, there are only large companies
- 6 participating and the failure rates of the small
- 7 companies are very high, we would not consider that
- 8 healthy. In fact, I think many venture investors
- 9 have made that determination and tend to shy away
- 10 from digital music.
- 11 JUDGE STRICKLER: Thank you.
- 12 BY MR. STEINTHAL:
- 13 Q. Let me just pick right up where
- 14 Judge Strickler was and point you to paragraph 29 of
- 15 your written testimony.
- 16 A. Yes.
- Q. You make the statement in paragraph 29
- 18 that, and I quote, "large companies like Apple,
- 19 Google, and Amazon may be willing to operate low
- 20 gross margin digital music services because their
- 21 other companion businesses are profitable and can
- 22 subsidize the music service."
- 23 Can you elaborate on what you mean by
- 24 "subsidize"?
- A. As I just discussed with Judge Strickler,

- 1 very few independent digital music services remain.
- 2 And the large companies are the ones that are
- 3 investing at this point. There are very little
- 4 investment capital coming from institutions.
- 5 When the large companies are making
- 6 investments in digital music, they are utilizing the
- 7 profits from elsewhere in their business, from other
- 8 businesses, other business lines they have, as the
- 9 basis for the cash that they're investing in their
- 10 digital music services. And I believe they're also
- 11 using their large user bases to bring more users
- 12 over and grow these services. And that's the
- 13 definition of "subsidize."
- 14 JUDGE STRICKLER: But couldn't -- you
- 15 call that a subsidy, but couldn't one also say
- 16 that's their investment in the music service? I
- 17 mean, when you invest, when -- when a venture
- 18 capitalist invests, they -- they take funds and they
- 19 become -- those funds become illiquid because now
- 20 they're invested in the startup of the entry
- 21 business and, as you say, there's a long time
- 22 horizon before they may become profitable. So
- 23 they've taken -- they've exchanged liquidity for a
- 24 potential payoff. If Apple, Google, and Amazon and
- 25 companies of that size decide to take money from

- 1 other parts of their business, we can be pejorative,
- 2 perhaps, and call that a subsidy, or we could be
- 3 perhaps economically neutral and call it an
- 4 investment.
- 5 Why would you -- why would you label it a
- 6 subsidy rather than an investment?
- 7 THE WITNESS: Well, I -- I don't consider
- 8 subsidy to be a negative -- negative concept, first.
- JUDGE STRICKLER: Okay.
- 10 THE WITNESS: But I -- I agree that the
- 11 -- that in this case, they're providing some
- 12 investment, but they're providing something else
- 13 also, right? They are -- they're also providing
- 14 perhaps their large user bases or other assets as a
- 15 way to drive some success beyond just capital, which
- 16 a venture capitalist just brings capital. I also
- 17 think they have longer time horizons and more
- 18 patience, perhaps, than venture capitalists and are
- 19 willing to undertake this investment for a long
- 20 period of time.
- 21 JUDGE STRICKLER: Doesn't that suggest
- 22 they have a superior business model to potential
- 23 entrants that allows them to do that? And if that's
- 24 the case, perhaps that's the business model that
- 25 succeeds in this business and the smaller business

- 1 models can't -- can't turn a profit and have -- and
- 2 can't wait out that longer time horizon? So if
- 3 that's the case, why should we try to equalize the
- 4 -- the opportunities of disparate business models?
- 5 THE WITNESS: Well, we don't know yet
- 6 whether they will be able to wait it out, as you
- 7 say, or use these other assets to grow them to a
- 8 scale where they are profitable. I think we're
- 9 surmising that that's a strategy, but we don't know
- 10 yet because we don't -- we haven't seen any evidence
- 11 that these services reach profitability.
- So I think it's an open question.
- JUDGE STRICKLER: Thank you.
- 14 BY MR. STEINTHAL:
- 15 O. Let me just follow up on one aspect of
- 16 what you were just saying in response to
- 17 Judge Strickler.
- 18 Have you seen any evidence of a large
- 19 company's ability to exploit its preexisting user
- 20 base to scale its music service?
- 21 A. Yes, I think Apple is a good example of
- 22 this. They bought Beats for 3 billion dollars,
- 23 largely a headphone company but had a small and, I
- 24 believe, failing digital music service called Beats
- 25 Music.

- 1 MR. CHARRON: I'd just object again,
- 2 we're outside his report.
- 3 MR. STEINTHAL: I think this is simply an
- 4 elaboration of what is in Mr. Pakman's paragraph 29,
- 5 talking about the investments made by large
- 6 companies like Amazon, Google, and -- and Apple.
- JUDGE STRICKLER: Maybe I'm incorrect but
- 8 didn't he mention Beats in his report as well? Did
- 9 you mention Beats in your report, Apple's
- 10 acquisition? I could be confusing it with other --
- 11 MR. STEINTHAL: Well, I was going to get
- 12 there because one of the criticisms Mr. Timmins
- 13 makes is his failure to identify certain
- 14 investments. I was going to go there in a moment,
- 15 and I'm happy to do that right now. And then I can
- 16 come back to the question.
- JUDGE BARNETT: In the meantime, the
- 18 objection is sustained.
- MR. STEINTHAL: Okay.
- 20 BY MR. STEINTHAL:
- 21 O. We'll come back to that. Let me ask you
- 22 this. Are you aware that Mr. Timmins claims in --
- 23 in his testimony that your conclusions about the
- 24 lack of a healthy investment environment in digital
- 25 music are belied by certain investments, reported

- 1 investments or impending investments, to use his
- 2 words, associated with four companies, including
- 3 Spotify, SoundCloud, Apple and Beats, and Vevo?
- 4 A. Yes.
- 5 Q. Let me ask you to respond to Mr. Timmins'
- 6 testimony on each of those four subjects to see
- 7 whether you have any response to his conclusion
- 8 about the investments or reported investments with
- 9 those companies. What about Spotify?
- 10 A. So Spotify, I'm aware that last year,
- 11 based on reading public reports, the company raised
- 12 a billion dollars of debt financing. And the terms
- 13 of this financing, according to public reports, were
- 14 severe. They have a coupon rate on the -- on the
- 15 debt that increases over time if the company does
- 16 not go public, and they also have a discount in the
- 17 conversion of debt to equity that increases over
- 18 time if the company goes public.
- 19 Effectively, the company, by its
- 20 investors, will decline in value the longer it does
- 21 not go public. These terms are severe terms and, I
- 22 think, are indicative of a -- of an unhealthy market
- 23 or at least an unwillingness of many investors to
- 24 invest.
- 25 MR. CHARRON: Again, we're beyond the

- 1 report. We're beyond elaborating. And I object. I
- 2 move to strike.
- JUDGE STRICKLER: I think -- I think
- 4 counsel candidly said it was not in the report, and
- 5 so the question, I suppose, is whether or not it's
- 6 sufficient -- it's appropriate for him to try to
- 7 respond to the rebuttal criticism.
- 8 MR. STEINTHAL: Which is exactly why I
- 9 asked the question.
- 10 MR. CHARRON: Well, I would just submit
- 11 that it's one thing to respond to a rebuttal
- 12 criticism. It's another to offer here with no
- 13 support for the first time a whole new analysis that
- 14 he says he has done that I'm not going to have an
- 15 opportunity to meaningfully cross. So that's my
- 16 objection.
- 17 MR. STEINTHAL: I think it was a subject
- 18 in Mr. Timmins' deposition, report and deposition.
- 19 So they've had adequate time to prepare for any
- 20 examination on this topic.
- JUDGE BARNETT: He's allowed to respond
- 22 to criticisms, and the objection is overruled.
- 23 THE WITNESS: If I could finish on
- 24 Spotify.
- 25 BY MR. STEINTHAL:

- 1 Q. Yes.
- 2 A. So he was saying that Spotify's -- first
- 3 of all, this 1 billion dollar financing is
- 4 indicative of interest in digital music and that
- 5 also Spotify has an impending IPO.
- 6 An event in the future is not an
- 7 indication of financing activity now. Spotify's
- 8 IPO, according to press reports, has been impending
- 9 for a very long time. There were reports that they
- 10 were -- they postponed their IPO last year, and I
- 11 read just this month that they have once again or
- 12 may have once again postponed their IPO.
- So you can't count some future potential
- 14 financing event as evidence of activity of financing
- 15 now.
- 16 BY MR. STEINTHAL:
- 17 Q. And what about his reliance on investment
- 18 in SoundCloud?
- 19 A. SoundCloud had an investment by Twitter
- 20 last year. And I have read reports that now this
- 21 year, after SoundCloud launched a digital music
- 22 service, that they're having severe trouble raising
- 23 any additional capital, that to the extent they'll
- 24 be able to raise it, it will be at a valuation much
- 25 lower than last year's Twitter valuation.

- 1 MR. CHARRON: Object, Your Honor.
- THE WITNESS: And I've read reports that
- 3 they may soon have to file for bankruptcy.
- JUDGE BARNETT: I'm sorry. This is rank
- 5 hearsay. So could you give us some reason why we
- 6 should accept this testimony?
- 7 MR. STEINTHAL: He's testifying about
- 8 reports that he has read. And I will provide those
- 9 reports during the examination of Mr. Timmins.
- 10 MR. CHARRON: I think it's clear that
- 11 everybody recognizes this is hearsay. And saying
- 12 that he's going to offer the sources down the road
- 13 with another witness doesn't really cure anything.
- 14 JUDGE BARNETT: True enough. Also our
- 15 rules say we can accept hearsay if we deem it
- 16 appropriate. But in this circumstance,
- 17 Mr. Steinthal, it's inappropriate for you to say he
- 18 can sit here and testify about all these things he
- 19 has read without identifying them and that you will
- 20 later produce these things.
- 21 MR. STEINTHAL: Your Honor, the -- he's
- 22 an expert. He has relied on reports in the press
- 23 about certain transactions. We would not have gone
- 24 into this testimony had not Mr. Timmins in his
- 25 report assailed this witness' --

- 1 JUDGE BARNETT: Sorry. You said in the
- 2 press. I didn't hear him identify that as public
- 3 reporting.
- 4 MR. STEINTHAL: Okay.
- JUDGE BARNETT: So there's a difference.
- 6 MR. STEINTHAL: Okay. Let me -- let me
- 7 elicit that.
- 8 THE WITNESS: Subtle but a difference.
- 9 And, Mr. Charron, Mr. Timmins is coming,
- 10 okay? He can respond to what Mr. Pakman is saying
- 11 today when he comes for his testimony as well.
- MR. CHARRON: That's true enough. But
- 13 Mr. Pakman can't respond to any questions I may have
- 14 on cross because I don't even have the articles that
- 15 he's claiming he looked at. We don't know what they
- 16 are, we don't know what they say.
- 17 And Mr. Pakman is, you know, a pumpkin
- 18 after this testimony. So --
- MR. STEINTHAL: They -- they are a gifted
- 20 law firm. They can look up Spotify on the web.
- 21 They can look up SoundCloud on the web.
- JUDGE BARNETT: Well, not between -- not
- 23 between now and lunchtime.
- MR. STEINTHAL: Well, they could have
- 25 done it after Mr. Timmins' deposition when I

- 1 inquired precisely of the basis for his testimony
- 2 that these investment events were events that led --
- 3 lent support to his criticism. They had every
- 4 opportunity since his deposition, knowing exactly
- 5 our dubious view of Mr. Timmins' testimony about the
- 6 so-called investor events.
- 7 JUDGE STRICKLER: So just so I
- 8 understand, at Mr. Timmins' deposition, you
- 9 confronted him with the same facts to which Mr. --
- 10 Mr. Pakman is now testifying about the nature of the
- 11 SoundCloud investments, Spotify investments, et
- 12 cetera?
- 13 MR. STEINTHAL: I asked him questions
- 14 about it, and he professed to rely on whatever it
- 15 was that was in his report and that he was unaware
- 16 of any other press reports about the additional
- 17 rounds of investment in Spotify, about the delayed
- 18 IPO, about the terrible financial condition of
- 19 SoundCloud.
- JUDGE STRICKLER: Well, he -- Mr. Timmins
- 21 is an expert or fact witness?
- MR. STEINTHAL: He's an expert.
- MR. CHARRON: He's a rebuttal expert.
- JUDGE STRICKLER: Rebuttal expert. Did
- 25 you contemplate utilizing his deposition testimony

- 1 and the impeachment you say you have of him as
- 2 direct evidence in your direct case? Suppose you
- 3 were eliciting it from a witness who is -- who is
- 4 now speaking about hearsay?
- 5 MR. STEINTHAL: No. Well, I mean, press
- 6 reports are press reports.
- JUDGE STRICKLER: Well, we don't have the
- 8 press reports. He's saying they're press reports.
- 9 I have no reason to disbelieve him, but I don't have
- 10 any -- we don't have any foundation for it. What
- 11 I'm saying is if you have deposition testimony
- 12 that's in some sense an admission or a declaration
- 13 against interest or some sort of impeachment, why --
- MR. STEINTHAL: It will be impeachment.
- 15 When he sits up on that stand later this week or
- 16 next week, we will see the lack of foundation for
- 17 the conclusions that Mr. Timmins reached and his
- 18 extremely selective view of reading press articles.
- 19 JUDGE STRICKLER: Well, I understand
- 20 that. That's -- that's all well and good. That's
- 21 fine, but why isn't it also just -- isn't it a
- 22 better way to get it into your case as deposition
- 23 testimony that's in some sense an admission or a
- 24 declaration against interest as opposed to trying to
- 25 get a witness to speak about hearsay?

- 1 MR. STEINTHAL: I think, Judge, it's --
- 2 it's both. We felt that twice is better than once
- 3 on this topic, once through a witness that has been
- 4 criticized for failing to consider investments in
- 5 SoundCloud, failing to consider investments in a
- 6 company like Vevo, which has nothing to do with the
- 7 digital interactive music service industry, and the
- 8 acquisition of Beats by Apple. He was criticized
- 9 for not having considered those events.
- JUDGE BARNETT: Well, he can respond to
- 11 that criticism without citing numerous unnamed press
- 12 reports that are clearly hearsay, and I don't think
- 13 that this is the appropriate way to get them in.
- 14 Sustained.
- MR. STEINTHAL: Okay.
- 16 BY MR. STEINTHAL:
- Q. Mr. Timmins relied on reported
- 18 investments in Vevo in support of his conclusion
- 19 that you were not considering appropriate events in
- 20 your assessment. How do you respond to that?
- 21 A. Vevo is an over-the-top video network,
- 22 OTT, more akin to a cable company. It doesn't -- it
- 23 operates under a vastly different rights regime than
- 24 the one that interactive music services operate
- 25 under. And so its financing activities are not an

- 1 indication of -- of investment in the interactive
- 2 digital music sector.
- Q. And he criticized you for not considering
- 4 -- as part of the healthy investment marketplace in
- 5 digital music services, for not considering Apple's
- 6 investment in Beats. How do you respond to that?
- 7 A. Apple did buy Beats for 3 billion
- 8 dollars. It was and remains today largely a premium
- 9 headphone company and speaker company, largely a
- 10 hardware company. In fact, Apple still sells Beats
- 11 products under the Beats brand. It's a very
- 12 successful hardware company.
- And at the time of its purchase, it had a
- 14 largely failing digital music service with fewer
- 15 than 250,000 subscribers. So taking that 3 billion
- 16 dollar purchase as evidence of investment in
- 17 interactive digital music services is erroneous.
- 18 Q. Now, going back to the question I had
- 19 asked you earlier -- and this will, I think, be my
- 20 last question -- have you seen any evidence -- going
- 21 back to your testimony in paragraph 29 and -- and
- 22 what you've said today, have you seen any evidence
- 23 of a large company's ability to exploit its
- 24 preexisting user base to scale its music service?
- 25 A. I think the Apple example is a great one.

- 1 Since that purchase of Beats, they reengineered the
- 2 Beats service, rebranded it, added features,
- 3 relaunched it, and have marketed heavily to their
- 4 existing user base and grown it to, I understand,
- 5 more than 20 million paying subscribers.
- 6 MR. STEINTHAL: I have nothing further,
- 7 Your Honors.
- 8 JUDGE STRICKLER: I have a question for
- 9 you before cross begins. On paragraph 13-A of your
- 10 direct testimony, it's on page 4. Let me know when
- 11 you have it.
- 12 THE WITNESS: Yes, I'm there.
- JUDGE STRICKLER: You say, "The digital
- 14 music service industry has fared poorly due
- 15 primarily to music licensing royalty rates." Let's
- 16 leave aside the music licensing royalty rates for
- 17 the moment. You say "primarily."
- 18 Tell me the other reasons why in your
- 19 opinion the digital music service industry has fared
- 20 poorly?
- 21 THE WITNESS: This is the common trait of
- 22 all digital music companies that I reviewed, that
- 23 the high royalties lead to low margins. So --
- JUDGE STRICKLER: Okay. That -- that's
- 25 what I was trying to exclude because you used the

- 1 word "primarily." I understand your testimony that
- 2 that's -- "primarily" means that's the main reason,
- 3 which, to my mind, means there are other less
- 4 important reasons, in your opinion.
- 5 What are those other less important
- 6 reasons?
- 7 THE WITNESS: I did not research -- do
- 8 any research to figure out what common additional
- 9 reasons exist across all digital music companies.
- 10 This is the one most common one that I -- that would
- 11 -- that I found.
- JUDGE STRICKLER: Are you aware of any
- 13 other reasons why, in your opinion, the digital
- 14 music service industry has fared poorly?
- THE WITNESS: Well, another one would be
- 16 that -- that certainty about whether one can receive
- 17 a license is -- is not 100 percent. So in many
- 18 cases, the licenses required to operate the service
- 19 are voluntary. And because of that, a negotiation
- 20 must be undertaken.
- 21 And a company can be started prior to it
- 22 obtaining -- well, it's almost always started prior
- 23 to it obtaining licenses, and then it has to engage
- 24 in the activity of attempting to receive voluntary
- 25 licenses. And that process is an uncertain process.

- 1 It can take a long time. There is evidence of
- 2 companies that fail prior to receiving their
- 3 licenses. Took too long, they didn't raise enough
- 4 capital. So that's another example.
- 5 JUDGE STRICKLER: In the -- in the
- 6 companies that you identified as failures in your
- 7 analysis, how many of them, in your opinion, if you
- 8 know, failed because of their inability to negotiate
- 9 a license or the duration -- as you testified, the
- 10 duration of time it took to try to get a license?
- 11 THE WITNESS: I don't know in total the
- 12 exact number, but I did come across one that I
- 13 remember, one that's called Music Bank, which is a
- 14 company that raised, I think, more than 20 million
- 15 dollars but was unable to receive all of its
- 16 licenses and, therefore, could not launch.
- JUDGE FEDER: When you're talking about
- 18 licenses in this context, are you talking
- 19 exclusively about label licenses?
- THE WITNESS: Combination -- well, I'm
- 21 speaking about voluntary licenses, and it would be
- 22 the combination of, if required, voluntary
- 23 publishing licenses or label licenses. But both,
- 24 both would be required. In the event of compulsory
- 25 publishing licenses, I'm not talking about those,

- 1 because those are compulsory.
- JUDGE FEDER: Thank you.
- 3 MR. CHARRON: May I inquire?
- JUDGE BARNETT: Yes.
- 5 MR. CHARRON: Thank you, Your Honors.
- 6 CROSS-EXAMINATION
- 7 BY MR. CHARRON:
- 8 Q. Good morning, Mr. Pakman.
- 9 A. Good morning.
- 10 Q. Again, my name is Bill Charron. You are
- 11 a former board member of the Digital Media
- 12 Association or DiMA; is that right?
- 13 A. Yes.
- 14 Q. And in your description of your
- 15 background in your written report in this case and
- 16 your Appendix A section to that report, you omitted
- 17 -- you omitted mentioning that fact, right?
- 18 A. I don't recall whether I put that on
- 19 there or not.
- 20 O. You can take a look. I can tell you I
- 21 didn't see it.
- 22 A. I trust your observation.
- 23 Q. Okay. And --
- JUDGE STRICKLER: It wasn't on his CV?
- 25 Is that what you're saying?

- 1 MR. CHARRON: His CV and also background,
- 2 pages 1 through 3 of his report, his background.
- JUDGE STRICKLER: Seems to be missing
- 4 from both?
- 5 MR. CHARRON: Correct.
- 6 BY MR. CHARRON:
- 7 Q. You were also a cochair of DiMA's music
- 8 licensing commission, right?
- 9 A. Committee.
- 10 Q. Committee?
- 11 A. Yes.
- 12 Q. And you omitted mentioning that in your
- 13 report in this proceeding as well, correct?
- 14 A. I did not acknowledge that.
- 15 Q. And DiMA's mission is to "promote
- 16 business and regulatory environments that support
- 17 DiMA's members' growth and success and which
- 18 encourage consumers' adoption of legal media digital
- 19 choices." Isn't that correct?
- 20 A. I don't recall DiMA's mission.
- 21 Q. Okay.
- 22 A. It was back in 1999.
- Q. Why don't we look at -- it's called
- 24 Impeachment Exhibit 5013.
- 25 A. I'm sorry, I don't see that here.

- 1 JUDGE STRICKLER: Is it in the cross
- 2 binder? Or no?
- MR. CHARRON: No, this is newly offered
- 4 to address the witness' last answer.
- JUDGE BARNETT: Has it been marked?
- 6 MR. WEIGENSBERG: No, because it's an
- 7 impeachment exhibit.
- 8 JUDGE BARNETT: It still needs to be
- 9 marked for identification.
- 10 JUDGE STRICKLER: These are our
- 11 companies?
- MR. WEIGENSBERG: These will be your
- 13 copies.
- 14 JUDGE BARNETT: Thank you.
- JUDGE STRICKLER: 5013?
- MR. CHARRON: Yes, that's correct.
- 17 THE CLERK: I need the one --
- 18 MR. CHARRON: Yes.
- 19 THE CLERK: -- the one that you gave to
- 20 witness so I can put a number it.
- 21 (Copyright Owners Exhibit 5013 was marked
- 22 for identification.)
- 23 BY MR. CHARRON:
- Q. This is a printout from DiMA's web site.
- 25 Do you recognize it?

- 1 A. No, I don't. When was this a printout
- 2 from DiMA's web site? It says 2017.
- Q. Correct. Do you see the mission
- 4 statement where the first paragraph says what DiMA
- 5 promotes?
- 6 A. I do.
- 7 Q. That's consistent with your understanding
- 8 of deem DiMA's mission, correct?
- 9 A. No, it's not, because I was a member of
- 10 DiMA back in 1999, maybe early 2000s, and I don't
- 11 recall what their mission was then. So I can't tell
- 12 you if this is consistent with it then.
- Q. Okay. You think their mission might have
- 14 been fundamentally different from what it says here?
- 15 A. I didn't say I think it might be
- 16 fundamentally different, but I just can't tell you
- 17 if this is consistent with what it was then.
- 18 Q. Okay. At the time that you were a
- 19 member, did DiMA also, as it says in paragraph 3,
- 20 represent its members in industry negotiations and
- 21 rate setting proceedings that determine significant
- 22 royalties?
- 23 A. Yes.
- Q. So it's fair to say that DiMA's objective
- 25 in representing its members in industry negotiations

- 1 and rate setting proceedings is to reduce artist and
- 2 music publishing royalty rates as much as possible,
- 3 correct?
- 4 A. I don't believe that was true.
- 5 Q. DiMA's members include, among other
- 6 companies, Amazon, Pandora, and Spotify, correct?
- 7 A. I don't know DiMA's current membership.
- 8 Those -- I don't believe Amazon nor Spotify were
- 9 members when I was there.
- 10 Q. The -- those are your clients in this
- 11 proceeding, right, together with Google?
- 12 A. My clients?
- 13 Q. They've retained you?
- 14 A. Yes.
- O. And DiMA -- are you aware that DiMA
- 16 itself was initially a party in this proceeding as
- 17 well, aligned with Amazon, Pandora, Spotify, and
- 18 Google?
- 19 A. I'm not.
- Q. Is it fair to say that if DiMA had been a
- 21 party, you would have declined this expert
- 22 engagement? That would have at least given an
- 23 appearance of bias by you; wouldn't you agree?
- A. I did not consider that question. I
- 25 don't know.

- 1 O. Regardless of DiMA's presence or
- 2 non-presence in the proceeding currently, your role
- 3 as a former -- withdrawn.
- 4 Your opinion offered in this proceeding
- 5 is as putative expert that is that the music
- 6 publishing royalty rates should be reduced by this
- 7 body, correct?
- 8 A. My opinion is they should certainly not
- 9 be increased. And I'm hopeful that it will be
- 10 reduced.
- 11 Q. Not necessarily reduced, though?
- 12 A. I'm sorry?
- 13 Q. You're saying your opinion is not that it
- 14 should be reduced?
- 15 A. I do believe that rates are too high.
- 16 That's what my evidence showed.
- 17 Q. So your opinion is that rates should be
- 18 reduced?
- 19 A. In the service of creating a healthier
- 20 industry, I do believe rates should come down.
- Q. Would you turn to paragraph 13 of your
- 22 report, which is on page 4. And here you explain
- 23 that you reached your opinions in your report based
- 24 on your "long personal experience in this industry,"
- 25 your "evaluation of potential investments while at

- 1 Venrock, " and your "review of the materials listed
- 2 in Appendix B."
- 3 You did not conduct any surveys of any
- 4 kind, correct?
- 5 A. No.
- Q. You did not create any economic models,
- 7 correct?
- 8 A. No.
- 9 Q. When you say no, you mean yes, that I'm
- 10 correct, right?
- 11 A. Oh, sorry. No, I did not create any
- 12 economic models.
- Q. You did not perform any regression
- 14 analyses, correct?
- 15 A. I did not perform a regression analysis.
- 16 O. Your opinions in your report are
- 17 primarily experiential in nature; fair to say?
- 18 A. No, they're based on research.
- 19 Q. I'd like to discuss your experience in
- 20 evaluating potential investments while at Venrock.
- 21 In paragraph 2 of your report on page 1, you say
- 22 that "Venrock invests in early-stage Internet
- 23 technology and healthcare companies and works to
- 24 build them into successful, stand-alone, high-growth
- 25 businesses." These are the kinds of businesses that

- 1 Venrock is interested in potentially capitalizing,
- 2 right?
- 3 A. Yes.
- 4 O. And as you said, other kinds of
- 5 businesses that are parts of markets -- let me
- 6 rephrase that. Other kinds of businesses are parts
- 7 of markets that are "not in favor by Venrock,"
- 8 correct?
- 9 A. I'm sorry, can you repeat the question?
- 10 Q. Other kinds of businesses than the ones
- 11 you've identified in paragraph 2 are parts of
- 12 markets that you said on your direct testimony are
- 13 "not in favor by Venrock"?
- 14 A. I'm having trouble understanding the
- 15 question.
- 16 O. Okav. Venrock is not interested in
- 17 investing in a company like Amazon or Google or
- 18 Apple as those companies are configured today,
- 19 correct?
- 20 A. We don't invest in public companies.
- 21 Well, we -- we do have two funds, but the fund that
- 22 I'm referring to here does not invest in public
- 23 companies. Those are all public companies.
- O. Did you -- the experience that you cite
- 25 in your report, is that part of both funds, only one

- 1 fund?
- 2 A. Only the -- only one fund. I did not
- 3 discuss the Venrock healthcare capital partners
- 4 public investment vehicle.
- Okay. By the term "standalone" -- when
- 6 you say that Venrock looks to turn them into
- 7 successful standalone high-growth businesses, by
- 8 "standalone," you mean businesses that offer
- 9 particular goods or services, not businesses that
- 10 offer widely diverse ranges of goods or services
- 11 such as an Apple or an Amazon; is that correct?
- 12 A. No, that's not what I mean.
- Q. And what Venrock also seeks is a startup
- 14 that offers a standalone business that has the
- 15 potential for high growth, which would mean a high
- 16 return on investment for Venrock, correct?
- 17 A. We seek both of those, high growth and
- 18 high rates of return.
- 19 Q. Venrock is institutionally geared toward
- 20 evaluating businesses that offer goods or services
- 21 that have the potential to be highly profitable on
- 22 an accounting basis. Do I have that right?
- 23 A. Yes.
- O. And Venrock hopes to be able to sell or
- 25 merge those standalone businesses with other

- 1 companies to make a large accounting profit,
- 2 correct?
- 3 A. I wouldn't describe it that way. The
- 4 first goal is -- would be to capitalize our -- to
- 5 experience our liquidity event through an IPO so the
- 6 company remains independent and grows, as we did
- 7 with Apple and Intel, and to experience liquidity
- 8 that way and provide the return that way. That
- 9 would be our first choice.
- 10 Q. Can you turn to page 4, paragraph 13A.
- 11 You say that the digital music service industry has
- 12 fared poorly due primarily to music licensing
- 13 royalty rates, including payments to both publishers
- 14 and owners of sound recordings that are too high.
- 15 And Judge Strickler asked you about this
- 16 a few minutes ago. You repeated in your direct
- 17 testimony that your research shows that companies in
- 18 this space have royalty obligations, and the payment
- 19 of those royalties leaves very little margin left
- 20 for the company. That's your opinion, correct?
- 21 A. Yes, it is.
- Q. All right. So I want to break up your
- 23 statement in paragraph 13A. You say that the
- 24 digital music service industry has fared poorly.
- 25 Would you turn in your binder to what is marked as

- 1 CO Exhibit H-2898?
- MR. CHARRON: Your Honor, I'm sorry, if I
- 3 failed to offer the prior exhibit, 5013, I meant to
- 4 offer that.
- JUDGE STRICKLER: That's the impeachment
- 6 exhibit?
- 7 MR. CHARRON: Yes.
- 8 MR. STEINTHAL: What's being offered?
- 9 MR. CHARRON: 5013.
- JUDGE BARNETT: The impeachment exhibit.
- 11 I don't think it has to be admitted.
- 12 BY MR. CHARRON:
- 13 Q. All right. Have -- you're familiar with
- 14 the Recording Industry Association of America, or
- 15 RIAA?
- 16 A. I am.
- Q. Do you consider the RIAA's data on record
- 18 label revenues and/or sales to be reasonably
- 19 accurate?
- 20 A. I believe it probably is, yes.
- O. If you look at figure 2 on Exhibit 2898,
- 22 it says that the number of paying subscribers for
- 23 on-line music services was about 7.9 million in the
- 24 first half of 2014. Do you see that?
- 25 A. Yes.

- 1 O. And it says that the number of paying
- 2 subscribers for those services --
- JUDGE STRICKLER: Hang on.
- JUDGE BARNETT: I'm sorry, Mr. Charron.
- 5 If you're going to get into the contents, we need to
- 6 have this admitted.
- 7 MR. CHARRON: Oh, I move first? I
- 8 apologize. I move for the admission. Oh, it is
- 9 admitted? It is admitted.
- 10 JUDGE STRICKLER: I think it was
- 11 previously admitted through another witness?
- JUDGE BARNETT: 2898.
- MR. WEIGENSBERG: Yes, Your Honor, in the
- 14 past -- past couple days, it was admitted through, I
- 15 believe, through Dr. Marx. I believe it was
- 16 admitted through Dr. Marx, Your Honor.
- 17 THE CLERK: Admitted on March 20th.
- JUDGE BARNETT: Thank you.
- 19 MR. CHARRON: I apologize.
- JUDGE BARNETT: Go ahead.
- 21 BY MR. CHARRON:
- Q. Okay. So, again, looking at figure 2,
- 23 RIAA reports the number of paying subscribers for
- 24 on-line music services grew to about 9.1 million in
- 25 the first half of 2015, correct?

- 1 A. Yes.
- Q. And that number grew again to about 18.3
- 3 million in the first half of 2016, correct?
- 4 A. Yes.
- 5 Q. So although you describe the digital
- 6 music service industry as "faring poorly," the
- 7 number of paying on-line digital music subscribers
- 8 actually more than doubled over the course of just
- 9 two years; isn't that correct?
- 10 A. Subscribers have doubled, but profits
- 11 remain elusive and failure rate is high.
- 12 Q. Okay. But I'm asking about subscribers.
- 13 The number of subscribers has doubled, you agree?
- 14 A. I agree.
- 15 O. And you didn't say anything about that in
- 16 your report; you just -- in fact, you didn't address
- 17 this fact at all in your report, correct?
- 18 A. I didn't because the growth of
- 19 subscribers does not seem to have bearing on the
- 20 failure rates in the industry.
- Q. Would you turn to -- in your binder, to
- 22 Exhibit H-2780. Are you familiar with Nielsen
- 23 music?
- 24 A. I'm familiar with Nielsen.
- Q. And have you ever seen their music U.S.

- 1 report?
- 2 A. I may have. I don't recall specifically
- 3 if I have.
- 4 MR. CHARRON: Your Honors, I move for
- 5 admission of Exhibit H-2780.
- 6 MR. STEINTHAL: No objection.
- JUDGE BARNETT: 2780 is admitted.
- 8 (Copyright Owners Exhibit Number 2780 was
- 9 marked and received into evidence.)
- 10 BY MR. CHARRON:
- 11 Q. Would you turn to page 8 of this exhibit.
- 12 On the bottom category, on-demand music streams, you
- 13 see it recites the number of music -- audio music
- 14 streams rose from 79.1 million to 144.9 million
- 15 between 2014 and 2015?
- 16 A. I do.
- 17 Q. Do you have any reason to think that that
- 18 data is inaccurate?
- 19 A. No.
- 20 Q. So the number of music streams has risen
- 21 substantially as well, correct?
- 22 A. Stream growth continues, no profits and
- 23 high failure rates.
- O. Okay. But were you aware of the rise in
- 25 demand for digital music at the time you wrote the

- 1 report in this proceeding?
- 2 A. I'm aware of the growth of streaming,
- 3 yes.
- Q. Are you aware that Pandora has, as of
- 5 March 15th of this year, last week, started a full
- 6 subscription interactive streaming service called
- 7 Pandora Premium?
- 8 A. Yes, I'm aware they added those features.
- 9 Q. You're aware of Spotify, of course. They
- 10 launched in 2011, right?
- 11 A. In the U.S. They were outside the U.S.
- 12 prior to that.
- Q. So they've been in business in the U.S.
- 14 for six years and -- and going. And, in fact, as
- 15 you noted on your direct, Spotify raised about a
- 16 billion dollars in convertible debt financing last
- 17 year, correct?
- 18 A. Yes, under very severe terms, I -- I did
- 19 note that.
- 20 Q. Well, we -- I think that might have been
- 21 addressed previously by the panel.
- 22 A. You were just asking what I was aware of.
- 23 O. Spotify -- Spotify has been valued at
- 24 over 8 billion dollars; isn't that also correct?
- 25 A. Private investors have invested under

- 1 those terms, yes.
- 2 Q. And its equity already trades even though
- 3 it's not a public company as yet, correct?
- 4 A. I'm not specifically aware of how it
- 5 trades or doesn't trade.
- Q. Three new on-line digital music services
- 7 also launched last year alone, right, SoundCloud Go,
- 8 Amazon Music Unlimited, and iHeart Media All Access.
- 9 Are you aware of that?
- 10 A. Yes, I'm aware that these features are
- 11 added to existing music services.
- 12 Q. Right.
- 13 A. I wouldn't characterize them as new
- 14 entrants or new launches.
- 15 Q. Prior to that, in 2015, Apple Music and
- 16 TIDAL were launched or relaunched, correct?
- 17 A. Yes.
- 18 Q. And so although you describe the digital
- 19 music service industry as "faring poorly," providers
- 20 of on-line digital music continue to enter the
- 21 market, right?
- 22 A. I believe the -- the features are
- 23 evolving of the services that you just mentioned,
- 24 and I don't think that is indication that there is
- 25 new entrants. And I also think that the fact that

- 1 these additional features have been added does not
- 2 counteract the fact that none of these companies are
- 3 achieving any profitability and the failure rates
- 4 are higher than other industries.
- 5 Q. Okay. But you --
- 6 A. That's why I conclude that it's not
- 7 faring well, not exclusively looking at growth.
- 8 Q. But you were aware of these companies
- 9 entering the market over the last year or two,
- 10 correct?
- 11 A. I am aware that they added these
- 12 features, yes.
- O. Would you turn to Exhibit H-2640.
- MR. CHARRON: Your Honor, I will, before
- 15 I forget, move for admission of H-2640.
- 16 MR. STEINTHAL: Is that the Nielsen
- 17 report?
- MR. CHARRON: No, it's a Variety article.
- JUDGE BARNETT: Let's -- yeah, let's
- 20 identify it for the record.
- MR. CHARRON: This is a --
- JUDGE BARNETT: Let's have the witness
- 23 identify it, if he can.
- JUDGE STRICKLER: This time you jumped
- 25 the gun.

- 1 MR. CHARRON: I'll find equilibrium
- 2 eventually, I promise.
- 3 BY MR. CHARRON:
- Q. Do you know what Deezer is, Mr. Pakman?
- 5 A. Yes.
- Q. It's an on-line music streaming service,
- 7 correct?
- 8 A. Yes.
- 9 Q. Were you aware at the time you prepared
- 10 your report that Deezer raised more than 100 million
- 11 dollars in financing in 2016 as reported in
- 12 Exhibit H-2640?
- 13 A. I was aware that Warner was propping up
- 14 Deezer with additional financing, yes.
- MR. CHARRON: I move for the admission of
- 16 2640.
- 17 MR. STEINTHAL: I would not object that
- 18 it is a press report. I -- as long as it's admitted
- 19 solely for the limited purpose of identifying that
- 20 this report was in the press and not for this
- 21 specific truth of matters within therein.
- JUDGE STRICKLER: Potentially fake news?
- 23 (Laughter).
- JUDGE BARNETT: 2640 is admitted.
- 25 (Copyright Owners Exhibit Number 2640 was

- 1 marked and received into evidence.)
- 2 BY MR. CHARRON:
- Q. Would you turn to Exhibit 2641,
- 4 Mr. Pakman. You've heard of SoundCloud?
- 5 A. I have.
- 6 Q. SoundCloud is another on-line streaming
- 7 service?
- 8 A. Yes.
- 9 Q. Were you aware at the time you prepared
- 10 your report that SoundCloud raised about 70 million
- 11 dollars in 2016?
- 12 A. Yes, and I'm also aware of the trouble
- 13 that company is in and it may now file for
- 14 bankruptcy.
- MR. CHARRON: I move for admission of
- 16 2641.
- 17 MR. STEINTHAL: On the same basis as my
- 18 prior comment, I have no objection.
- JUDGE BARNETT: 2641 is admitted.
- 20 (Copyright Owners Exhibit Number 2641 was
- 21 marked and received into evidence.)
- 22 BY MR. CHARRON:
- Q. Would you turn to Exhibit H-2752. You've
- 24 heard of TIDAL, correct?
- 25 A. I have, yes.

- 1 Q. Another on-line digital music service,
- 2 right?
- 3 A. Yes.
- Q. Were you aware at the time you prepared
- 5 your report that TIDAL received a 200 million dollar
- 6 investment in 2016 from Sprint?
- 7 A. I don't recall the date that this
- 8 investment happened, but I am aware now that -- of
- 9 this investment. And I think it is a good example
- 10 of what we were talking about earlier, about how
- 11 large companies with existing user bases can
- 12 probably use their large user bases to drive some
- 13 additional growth for music services.
- JUDGE BARNETT: I'm sorry.
- MR. CHARRON: I move for the admission of
- 16 2752.
- 17 JUDGE BARNETT: Thank you. I was just
- 18 going to ask again for the number.
- MR. STEINTHAL: No objection on the same
- 20 basis.
- JUDGE BARNETT: 2752 is admitted.
- 22 (Copyright Owners Exhibit Number 2752 was
- 23 marked and received into evidence.)
- 24 BY MR. CHARRON:
- 25 Q. The -- the 200 million dollar investment

- 1 by Sprint, that was not a case of a "investment from
- 2 the balance sheet of an existing large company" as
- 3 you testified on your direct, right?
- 4 A. I think it is. I believe that Sprint
- 5 probably used 200 million dollars from their balance
- 6 sheet to make the investment. They're an existing
- 7 large company.
- 8 O. Have you read Dr. Michael Katz's
- 9 testimony in this proceeding?
- 10 A. I don't believe so, no.
- 11 Q. Are you aware that he testified at
- 12 page -- transcript page 667, lines 18 through 23,
- 13 that "the industry was optimistic that given the
- 14 current structure and their views about going forth
- 15 -- and here by industry I mean the streaming
- 16 services -- that the market was functioning on that
- 17 side and that we are seeing sufficient investment"?
- 18 A. I don't know what you're reading from.
- 19 I'm sorry. I don't have it in front of me. I --
- 20 O. You're unaware of Dr. Katz giving that
- 21 testimony in this proceeding?
- 22 A. I don't -- I don't recall being aware of
- 23 it, no.
- Q. Are you aware that he's Pandora's expert
- 25 in this case?

- 1 A. I -- I'm not, no.
- Q. And Pandora is one of the companies that
- 3 retained you, correct?
- 4 A. Yes.
- 5 Q. So, again, although you describe the
- 6 digital music service industry as "faring poorly,"
- 7 providers of on-line digital music continue to be
- 8 able to attract more than hundreds of millions of
- 9 dollars from financiers and investors, correct?
- 10 A. I think there's ample evidence that the
- 11 large companies are filling in the gaps now as
- 12 investors, where many institutional investors are no
- 13 longer prepared to make investments. But I do think
- 14 cherry-picking a few examples of this doesn't change
- 15 the evidence that I've presented in my testimony
- 16 that this sector does not attract as much investment
- 17 capital from VCs as other technology sectors do.
- JUDGE STRICKLER: Is one of the reasons
- 19 -- I mean, you said that the primary reason is high
- 20 royalty rates. But is it -- let me ask you the
- 21 question. Is it also a problem that royalty rates
- 22 are uncertain in part because they're set and not --
- 23 not necessarily the mechanical -- well, let's just
- 24 leave it at that. Is it because mechanical rates
- 25 are set by statute, by us, as opposed to the

- 1 marketplace? Is that a factor?
- THE WITNESS: So, usually, at the time of
- 3 the investment, there is an understanding of
- 4 generally what the royalty rates have recently been,
- 5 and I think give you a proxy for figuring out what
- 6 they will be around the time of launch.
- 7 Unless there's a voluntary license
- 8 negotiation required, then there is uncertainty. We
- 9 don't know what the outcome will be. But there
- 10 certainly is ongoing certainty, given that some
- 11 rates change over time through proceedings like
- 12 this. And that uncertainty leads to higher risk,
- 13 for sure.
- 14 JUDGE STRICKLER: The higher -- the
- 15 largest percentage of the royalty rates are paid --
- 16 royalties are paid for the sound recording rights,
- 17 correct?
- 18 THE WITNESS: Yes.
- 19 JUDGE STRICKLER: Those are in the
- 20 marketplace?
- 21 THE WITNESS: Yes.
- JUDGE STRICKLER: And is part of the
- 23 concern at all by venture capitalists that the
- 24 market power of those licensors is such that perhaps
- 25 there won't be a sufficient return given the

- 1 exercise of that market power by the licensors?
- THE WITNESS: Absolutely. The licensors
- 3 can make a binary decision on a new company entering
- 4 the market. If they choose to license them, then
- 5 the company can enter the market. If they choose
- 6 not to, the company cannot.
- 7 So there is a high level of uncertainty
- 8 for -- on behalf of a venture investor when
- 9 investing in a startup that does not yet have any
- 10 licenses. Don't know if they'll be to achieve them.
- 11 And just to answer your question a little
- 12 more fully, we know that the rightsholders have all
- 13 the leverage in that conversation. And so you're
- 14 really at the largesse of the -- of the record
- 15 labels in that case.
- 16 JUDGE STRICKLER: That being the case,
- 17 what is the -- what is the impact of -- whether or
- 18 not a venture capitalist will or will not invest in
- 19 these companies, what is the impact of what we're
- 20 doing here on that decision?
- THE WITNESS: Well, to the extent that
- 22 rate proceedings like this make adjustments to rates
- 23 that result in more profit for --
- JUDGE STRICKLER: Well, I don't want to
- 25 talk about rate proceedings like this.

- 1 THE WITNESS: Okay, I'm sorry.
- JUDGE STRICKLER: I want to talk about
- 3 this rate proceeding.
- 4 THE WITNESS: Yes.
- JUDGE STRICKLER: If -- if the amount
- 6 that's paid in the marketplace to these licensors --
- 7 you say you're at their largesse because of the
- 8 nature of their power and that's the predominant
- 9 royalty that is paid, how does tweaking this, the
- 10 rate at the mechanical royalty level, change --
- 11 change that calculus, given -- given your expertise
- 12 in venture capital?
- 13 THE WITNESS: Yes, Your Honor, I
- 14 understand the question. The digital music
- 15 companies, operators, view their royalty rates in
- 16 the totality of the combination of all rates that
- 17 are implicated and all -- they look at that as total
- 18 cost.
- 19 And the -- the mechanical and the
- 20 performance royalties associated with the sound
- 21 recording -- with the proposition are not de
- 22 minimis. They're meaningful, particularly at scale.
- So while I appreciate that largely one is
- 24 larger than the other, it's the combination of both
- 25 that result in the gross margin, and -- and a shift

- 1 in gross margin somewhat in either direction can
- 2 be -- can be the difference between a positive or
- 3 negative outcome. So I believe what we're -- what
- 4 we're doing here is meaningful to a venture
- 5 investor's decision about whether a company can
- 6 become profitable.
- JUDGE STRICKLER: So on the margin,
- 8 you're saying, this might make the difference?
- 9 THE WITNESS: Let's quantify what you
- 10 mean by "margin." I mean on gross margin like on
- 11 the accounting definition, but not like in the sense
- 12 of it barely matters.
- JUDGE STRICKLER: Thank you.
- 14 BY MR. CHARRON:
- O. Mr. Pakman, isn't it possible that
- 16 venture capitalists are not investing, according to
- 17 you, because there are already large, well-financed
- 18 companies in this sector?
- 19 A. Well, my research looked back across a
- 20 long period of time before many of the companies
- 21 that are now in digital music were in digital music.
- 22 It is possible that -- I mean, venture capitalists
- 23 do consider what the marketplace looks like and what
- 24 it may look like over time. And, certainly,
- 25 competing against large companies factors into the

- 1 analysis.
- 2 But I don't believe it is the primary
- 3 reason because there's plenty of other examples of
- 4 venture capitalists investing in companies in other
- 5 sectors where many large players exist, and the
- 6 belief is that the small companies can still be
- 7 successful, can disrupt the large companies in some
- 8 way.
- 9 Q. Returning to paragraph 13-A of your
- 10 report, and your language that the industry is
- 11 faring -- faring poorly in your opinion, "due
- 12 primarily to music licensing royalty rates that are
- 13 too high, " Judge Strickler asked you on your direct
- 14 about what other cost inputs you could think of.
- 15 If you turn to paragraph 25 --
- 16 A. I'm sorry, I don't believe he asked me
- 17 what other cost inputs I could think of.
- 18 Q. Oh, I apologize if I -- if I misheard
- 19 him. But if you turn to paragraph 25 on page 9 of
- 20 your report, on the bottom of that page, you
- 21 identify other cost inputs here, right, overhead,
- 22 marketing, staff, technology costs, correct?
- 23 A. I do identify these other costs.
- O. And you didn't offer an analysis of where
- 25 each of these inputs ranks specifically along any

- 1 kind of causation scale when you offered your
- 2 opinion about the industry faring poorly due
- 3 primarily to music licensing royalty rates, correct?
- A. I'm sorry, I don't understand the
- 5 question.
- 6 Q. You simply identified music licensing
- 7 royalty rates as the primary cause for your belief
- 8 that the industry is faring poorly, without
- 9 analyzing any of these other cost inputs, correct?
- 10 A. I agree with the first half of your
- 11 statement, but not the second, because clearly I do
- 12 consider that these costs exist, but I don't believe
- 13 that these costs are the primary reason.
- Q. But you didn't do any analysis to look at
- 15 any of these costs specifically to support your
- 16 intuition, did you?
- 17 A. I have an awareness as a former
- 18 entrepreneur and operator of companies what the
- 19 typical costs for marketing and credit card charges
- 20 and overhead and tech costs are.
- Q. Your report doesn't offer anywhere any
- 22 analysis of any of these other cost inputs; isn't
- 23 that correct?
- 24 A. I did not provide that analysis.
- 25 Q. And on direct, you answered Judge

- 1 Strickler by saying you didn't even try to do that
- 2 kind of analysis, right?
- 3 A. I don't believe Judge Strickler asked me
- 4 this question.
- 5 Q. Your report doesn't analyze how much is
- 6 actually spent by digital music providers on, for
- 7 example, marketing costs, right?
- 8 A. I'm sorry, just -- can you repeat the
- 9 question?
- 10 Q. Your report does not analyze how much is
- 11 actually spent by digital music providers on
- 12 marketing costs; isn't that correct?
- 13 A. It is correct.
- 14 Q. And marketing costs are directed at
- 15 keeping up with competition or trying to get ahead
- 16 of competition. Would you agree with that?
- 17 A. My report focused largely on cost of
- 18 goods --
- 19 Q. I'm asking --
- 20 A. -- but marketing is not a cost of goods.
- O. I asked a different question. I asked if
- 22 you would agree that marketing costs are addressed
- 23 to keeping up with competition or getting ahead of
- 24 competition in a particular space?
- 25 A. I think marketing costs have other

- 1 bearing on a company. Those are some of the -- some
- 2 of the reasons why one engages in marketing.
- 3 Q. You would agree that the digital music
- 4 industry is competitive among providers who all
- 5 offer the same ultimate product, which is the
- 6 ability to listen to music, right?
- 7 A. Are you saying that all of the services
- 8 are the same?
- 9 Q. I did not say that. I asked you if you
- 10 agreed that this industry is competitive.
- 11 A. Okay. That's a different question than
- 12 the first one you asked. Do you want me to answer
- 13 just that question?
- 14 Q. Yes.
- 15 A. Yes, it's a competitive industry.
- 16 Q. Does quality of management factor into
- 17 your causation analysis at all or -- let me -- let
- 18 me rephrase that.
- 19 Did you consider quality of management as
- 20 a factor when you offered your opinion that the
- 21 industry is faring poorly due primarily to licensing
- 22 rates?
- 23 A. I believe that venture investors, which
- 24 is what this report is concerned with, always make a
- 25 determination as to the quality of a team, no matter

- 1 which sector they're entering. We also look to see
- 2 their domain experience or try to assess the
- 3 likelihood of them doing well in certain sectors.
- 4 So common amongst all the venture-backed
- 5 companies would be the assumption that venture
- 6 investors did consider whether -- the quality of the
- 7 team before making the investment.
- 8 Q. Would you say that the quality of
- 9 management is perhaps the single-most important
- 10 consideration in evaluating opportunities by venture
- 11 capitalists?
- 12 A. I can't speak for every venture
- 13 capitalist. We all have a different set of criteria
- 14 we individually choose to make a decision, so I
- 15 can't --
- 16 Q. Do you disagree with that statement as a
- 17 general proposition?
- 18 A. Again, I can't speak for all of them. I
- 19 can't say it's the primary --
- JUDGE STRICKLER: How about for yourself?
- 21 THE WITNESS: I consider largely three
- 22 factors, team, market, product -- four, sorry, team,
- 23 market, product, and business model.
- JUDGE STRICKLER: In that -- in that
- 25 order, team, product?

- THE WITNESS: Yeah, I mean, it's a --1 JUDGE STRICKLER: That was the -- the 2 question was do you consider -- I'm taking you to 3 say "team" as meaning management. The question was 4 do you consider management as the -- well, he was 5 asking you about the industry, whether the industry considers management --7 THE WITNESS: Yes, sir. 8 JUDGE STRICKLER: --- as the primary 9 issue with regard to the --10 THE WITNESS: Yes. 11 JUDGE STRICKLER: -- the qualification of 12 the potential firm for investment. And you said you 13 didn't know in the industry, so now the question --14 THE WITNESS: Yeah. 15 JUDGE STRICKLER: -- I'm asking you is, 16 well, how about for yourself? 17 THE WITNESS: I generally consider team 18 to be the most important criteria. It's different 19 than others. But -- but all four play a major 20 21 factor in the determination. JUDGE STRICKLER: All four being --2.2 THE WITNESS: Team, market, product, and 23 business model. 24
- 25 BY MR. CHARRON:

- 1 O. But you didn't discuss quality of
- 2 management anywhere in your report in this
- 3 proceeding, correct?
- 4 A. No, I did not.
- 5 Q. Does the newness of a market itself
- 6 factor into analyzing whether an industry is faring
- 7 well or poorly at a given point?
- 8 A. No, I don't believe that time is an
- 9 indication of how well a market is performing.
- 10 Q. So you don't believe that there's any
- 11 sort of learning curve element or and evolutionary
- 12 component to an industry that might start off not
- 13 doing as well as it might do later when it's more
- 14 establish?
- 15 A. So your first question, I believe a
- 16 market can be performing well in its early stages,
- 17 its mid stages, and its late stages. Your second
- 18 question is, is there a learning curve in markets?
- 19 Is that the question?
- 20 Q. My question is whether you considered the
- 21 existence of a learning curve -- well, withdrawn.
- 22 Yes.
- Do you agree that there can be -- that
- 24 there is a learning curve that should be factored
- 25 into the evaluation of whether an industry is doing

- 1 well or poorly at any given time?
- 2 A. As you state the question, it's hard for
- 3 me to agree that way.
- Q. Does the level of competition among
- 5 suppliers matter to an analysis of whether an
- 6 industry is faring well or poorly?
- JUDGE STRICKLER: You're referring to the
- 8 suppliers to that industry?
- 9 MR. CHARRON: Correct, Your Honor.
- JUDGE STRICKLER: All right.
- 11 THE WITNESS: Sorry, could you repeat the
- 12 question one more time?
- 13 BY MR. CHARRON:
- 14 Q. Does the level of competition among
- 15 suppliers matter to the evaluation of whether an
- 16 industry is doing well or poorly?
- 17 A. I think it's a factor in determining
- 18 whether a -- how well a market is doing, yes.
- 19 Q. And your report doesn't analyze either
- 20 how long the digital music market has been in
- 21 existence or the level of competition within that
- 22 market over time, right?
- 23 A. The report does look at the -- the
- 24 entirety of venture capital activity investments
- 25 throughout the history of digital music, so I think

- 1 it does consider time and -- and makes a judgment
- 2 about the success over that period of time.
- 3 Q. Of venture capitalists?
- A. Yes, the report is about venture capital
- 5 activity into the digital music, mobile, eCommerce,
- 6 and SaaS companies.
- 7 Q. As between mechanical and sound recording
- 8 royalties, which is a greater factor in causing the
- 9 digital music service industry to "fare poorly," in
- 10 your opinion?
- 11 A. Venture capitalist -- I'm sorry,
- 12 operators of digital music services view the
- 13 totality of all royalty obligations as their total
- 14 cost of goods. And it's the sum of all of them that
- 15 manifests --
- Q. That wasn't -- I'm sorry, that wasn't my
- 17 question. My question to you as an expert is, as
- 18 between mechanical and sound recording royalties,
- 19 which is a greater factor in causing the digital
- 20 music service industry to fare poorly, in your
- 21 opinion?
- 22 A. I did not analyze that.
- Q. And sitting here today, you can't offer
- 24 an opinion on whether it's sound recording royalties
- 25 are more of a cause than mechanical royalties?

- 1 A. I do appreciate the differences between
- 2 the two. But I'd have to analyze a number of
- 3 factors to figure out which is a cause. I believe
- 4 they both have impact, for sure. But I -- but I do
- 5 know that as an operator of a music service, we
- 6 looked at the total. The total was what was key and
- 7 most important. And when the total is such that
- 8 very little is left after revenues minus costs, I
- 9 mean, you can't operate a service without both. So
- 10 we need to -- we need to find out what the total is
- 11 to know.
- MR. CHARRON: I'm going to get into a
- 13 line of questioning, Your Honor, that will have
- 14 restricted content.
- JUDGE BARNETT: Okay. You can do that
- 16 after our morning recess. 15 minutes.
- 17 (A recess was taken at 10:43 a.m., after which
- 18 the hearing resumed at 11:02 a.m.)
- 19 JUDGE BARNETT: Please be seated. Ladies
- 20 and gentlemen, in a few minutes, we're going to have
- 21 a test of our emergency --
- JUDGE FEDER: Alert.
- 24 you. It should only affect library-issued cell
- 25 phones. And I think ours are in the other room and

1	turned off oh, and computers. But the clerk,
2	Ms. Whittle I feel terrible calling her the
3	clerk. Ms. Whittle has both her phone and computer
4	on. So if you hear something, remember this is a
5	test, this is only a test. Mr. Charron?
6	MR. CHARRON: As I indicated, I have a
7	very, very brief line of questioning that involves
8	some restricted content.
9	JUDGE BARNETT: If if there's anyone
10	in the courtroom who is not permitted to hear
11	privileged, restricted, or confidential information,
12	please wait outside.
13	(Whereupon, the trial proceeded in
14	confidential session.)
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

- 1 OPEN SESSION
- JUDGE BARNETT: I don't think anyone went
- 3 out, but we do need to reopen the door.
- 4 MR. ZAKARIN: At least one person went
- 5 out.
- 6 JUDGE BARNETT: Thank you.
- 7 MR. CHARRON: Thank you.
- 8 BY MR. CHARRON:
- 9 Q. Let's turn to page 4, paragraph 13-C of
- 10 your report. You say that the total dollar amount
- 11 of payments to music rightsholders has been
- 12 depressed, in your opinion. Do you see that?
- 13 A. Yes.
- Q. It's your opinion that by reducing music
- 15 publishing royalties, more total dollars will be
- 16 paid to music publishing owners? Do I have that
- 17 right?
- 18 A. I believe that lowering the total royalty
- 19 burden paid by interactive digital music services,
- 20 that more services can enter the market, more
- 21 investment can return, and there's a higher
- 22 likelihood that those services will reach
- 23 profitability. And from that, I conclude there's a
- 24 higher likelihood that they will stay in business.
- 25 And I believe then the total amount of

- 1 royalties paid, if there are more companies
- 2 operating more broadly, to rightsholders can
- 3 increase.
- Q. Music publishing owners get paid because
- 5 of a demand for the music, right? Music publishing
- 6 owners don't get paid just because a supplier
- 7 happens to exist? They get paid --
- 8 A. I agree that the services actually have
- 9 to have revenue and customers.
- 10 Q. And so do you believe that if music
- 11 publishing royalties were to drop, that prices to
- 12 consumers would drop as a result and, as a result of
- 13 that, there might be more overall demand for digital
- 14 music? Is that your opinion?
- 15 A. I do have that opinion.
- 16 Q. But you haven't analyzed whether
- 17 suppliers of digital music will actually reduce
- 18 their own prices to consumers if music publishing
- 19 royalties drop, have you?
- 20 A. I have some personal experience with
- 21 this.
- 22 Q. It's not in your report, though, correct?
- 23 A. No, it's not.
- Q. So, for example, if music publishing
- 25 royalties were to drop by 2 percent, you have not

- 1 analyzed in your report whether those cost savings
- 2 would be passed directly to consumers or whether
- 3 they might, for instance, be used to increase
- 4 marketing?
- 5 A. I did not do that analysis.
- 6 O. You would agree, wouldn't you, that more
- 7 supply of a good or a service does not necessarily
- 8 mean there will be more demand for that good or
- 9 service, correct?
- 10 A. Specifically, can you -- can you tell me
- 11 what you mean by "more supply"?
- Q. If there are more suppliers of a good or
- 13 service, that doesn't necessarily mean there will be
- 14 more demand for that good or service that they're
- 15 supplying, correct?
- 16 A. It doesn't necessarily mean, but there
- 17 are examples where more supply can equal larger
- 18 demand.
- 19 Q. Isn't it the case with on-line digital
- 20 music that even just one supplier with rights to a
- 21 particular song, say, "Jumping Jack Flash" by the
- 22 Rolling Stones, can satisfy the demand for anyone
- 23 and everyone in the world who has access to the
- 24 Internet and who would also like to listen to that
- 25 song?

- 1 A. I don't believe that statement is true.
- 2 Q. Turning to paragraph 18 of your report,
- 3 also on page 6, you refer to four factors, and you
- 4 say that these combined factors make Venrock and
- 5 other investors skeptical that they will earn a
- 6 meaningful return on their invested capital.
- 7 Do you see that?
- 8 A. Yes.
- 9 Q. And, once again, this isn't based on any
- 10 kind of formal survey of any other investors by you,
- 11 correct?
- 12 A. No, it's just based on the research I
- 13 laid out in the report.
- Q. When you refer in your report to "a
- 15 widespread failure, " among digital music providers,
- 16 you're not claiming that on-line digital music is
- 17 not widely available for listening, are you?
- 18 A. I'm not making that claim.
- 19 Q. Okay. And do you disagree that anyone
- 20 with an Internet connection can access every song
- 21 that is offered by any particular on-line service?
- 22 A. Well, provided they're willing to pay the
- 23 price, which I think is a factor in determining
- 24 whether they will.
- Q. Do you believe that royalty rates should

- 1 be set based on supporting the weakest of
- 2 competitors within a market?
- 3 A. I wasn't asked to determine how royalty
- 4 rates should be set. I just followed the -- I
- 5 looked at the 801(b) factors that were listed in
- 6 this proceeding.
- 7 Q. All right. Let's turn to paragraph 27 on
- 8 page 11 of your report. And this is where you
- 9 discuss your work with the PitchBook Platform,
- 10 correct?
- 11 A. Yes.
- 12 Q. And looking at the PitchBook Platform
- 13 constituted the entirety of your outside research
- 14 efforts, right? You don't say you reviewed any data
- 15 from any other sources than PitchBook, correct?
- 16 A. No, I discuss the use of public media
- 17 reports as well.
- 18 O. But you don't discuss that anywhere
- 19 within the analysis that you've explained in
- 20 paragraph 27 or its footnotes, do you?
- 21 A. In -- in footnote 15, I discuss that I
- 22 had to exclude 897 companies, and the process used
- 23 to exclude those involved research of things other
- 24 than PitchBook.
- Q. Okay. We'll -- we'll get to that, but

- 1 you don't actually explain it in your footnote 15,
- 2 right?
- 3 A. It's not explained in footnote 15.
- 4 Q. Did you get a waiver from PitchBook to
- 5 allow you to use its content to support your report
- 6 in this proceeding for which you were personally
- 7 paid 800 dollars an hour?
- 8 A. I did not.
- 9 Q. Are you aware that PitchBook has terms of
- 10 use?
- 11 A. I'm aware they have terms of use.
- Q. Are you aware that one of those terms of
- 13 use is a limitation on use that prohibits any use,
- 14 other than in accordance with its, PitchBook's, fair
- 15 use policy?
- 16 A. I'm aware of that.
- 17 O. You are aware of that? Under the fair
- 18 use policy, you are permitted to "incorporate
- 19 limited data derived from the content into
- 20 presentations and reports for use solely in
- 21 connection with your internal business operations."
- 22 That's your understanding, correct?
- 23 A. Yes.
- Q. But your report is not being offered
- 25 solely in connection with your -- even Venrock's

- 1 internal business operations, correct?
- 2 A. It is not.
- 3 Q. Did you get PitchBook to agree to waive
- 4 its disclaimer on inaccurate content contained
- 5 within its platform?
- 6 A. No.
- 7 Q. Are you aware of that disclaimer?
- 8 A. I'm not.
- 9 Q. Let's look at Exhibit 5015. I'm sorry,
- 10 it's 5014. I apologize. The last one was 5013.
- 11 THE CLERK: 5014 is how I marked it.
- 12 (Copyright Owners Exhibit 5014 was marked
- 13 for identification.)
- JUDGE STRICKLER: 5014, we're saying?
- MR. CHARRON: Correct.
- 16 BY MR. CHARRON:
- 17 Q. In particular, I'd like to direct your
- 18 attention to paragraph 9 called No Warranty;
- 19 disclaimer. And you had said, Mr. Pakman, that you
- 20 were aware of PitchBook's terms of use, but this is
- 21 the first time you're seeing this term of use
- 22 regarding its disclaimer?
- 23 A. I have looked this over before. I can't
- 24 tell you for certain I read this paragraph.
- Q. Now, according to this provision,

- 1 PitchBook's content is "not intended to provide
- 2 legal, accounting, investment, or financial advice
- 3 and should not be relied upon in that respect."
- 4 Correct?
- 5 A. That's what it says.
- Q. And it has a lot of all-capital language
- 7 disclaiming the content as being provided as is and
- 8 with all faults. Do you see that?
- 9 A. I do.
- 10 Q. All right. Returning to paragraph 27 of
- 11 your report, and, in particular, footnotes 12
- 12 through 15, I'd like to walk through -- I know we
- 13 did some of this on your direct, but I'd like to
- 14 walk through exactly what you did here.
- So as you said, you compared what you
- 16 called the digital music sector to mobile, SaaS, and
- 17 eCommerce sectors in PitchBook?
- 18 A. Yes.
- 19 Q. For mobile, you say you selected the
- 20 mobile vertical. By "vertical," do you mean like a
- 21 box for a category or --
- 22 A. No, I'm using "vertical" as a definition
- 23 of a market segment. But, yeah, it is a search
- 24 criteria, and it is a check box.
- Q. Okay. And mobile, PitchBook actually

- 1 defined it as companies whose primary revenue source
- 2 comes from providing services for mobile devices or
- 3 enabling mobile communications, right?
- 4 A. That's right.
- 5 Q. And you did not add any additional key
- 6 words to narrow this category, correct?
- 7 A. I did not.
- 8 Q. You accepted the entirety of PitchBook's
- 9 results for all of the mobile companies that were
- 10 VC-backed as of October 2 of last year, correct?
- 11 A. That's right.
- 12 Q. And you didn't say this in your report,
- 13 but you revealed on your direct that you had the
- 14 start date of whenever data was first compiled by
- 15 PitchBook?
- 16 A. Correct.
- 17 Q. And that might have gone back to 1992, I
- 18 think you said, right?
- 19 A. It may go back earlier. I just observed
- 20 in the search results that there was a company back
- 21 from that early.
- 22 O. Okay. In comparing the mobile sector,
- 23 the SaaS sector, eCommerce sector to the digital
- 24 music sector, did you consider at all the relative
- 25 newness of the digital market -- digital music

- 1 market in your analysis?
- 2 A. I don't consider the digital music market
- 3 new. It has been around since the mid '90s. And I
- 4 think so have SaaS and eCommerce especially. So I
- 5 -- I didn't consider -- I don't consider it a new
- 6 market.
- 7 Q. For the mobile, going back to footnote
- 8 12, you say that PitchBook provided you hits with
- 9 10,999 companies, right?
- 10 A. Yes.
- 11 O. And you don't identify what those
- 12 companies are anywhere in your report, correct?
- 13 A. I did not list them, no.
- 14 Q. In fact, you haven't reproduced any
- 15 PitchBook data for your report, have you?
- 16 A. I have not.
- 17 Q. Fair to say you could not recite all
- 18 10,999 companies, sitting here now?
- 19 A. It's fair to say I could not.
- 20 Q. And no one else tried to re-create your
- 21 -- well, withdrawn. Whatever these 10,999 companies
- 22 were, you did not exclude any of them from the
- 23 universe for running your further analysis, right?
- 24 A. I did not exclude any, no.
- 25 Q. What you did next was determine within

- 1 that universe how many companies had what you called
- 2 non-distress the exits and how many had distressed
- 3 outcomes, your term, correct?
- 4 A. Yes, that's right.
- 5 Q. And non-distressed exits, according to
- 6 you, are companies that had either public
- 7 investments or acquisitions, right?
- 8 A. And produced a -- a profitable outcome
- 9 for their investors. That's what the search
- 10 criteria for profitable exit is.
- 11 Q. And you didn't -- you didn't say this in
- 12 your report, but am I correct, from your direct
- 13 testimony, that a profitable outcome means return of
- 14 initial capital plus at least one dollar?
- 15 A. Yes.
- Q. And so you found -- you say PitchBook
- 17 that reported 2,388 VC-backed mobile companies that
- 18 have profitable public investments or acquisitions
- 19 during your time period, right?
- 20 A. Yes.
- Q. And that is 21.7 percent of the total
- 22 universe of companies you looked at, right?
- 23 A. Yes.
- Q. And you haven't identified anywhere in
- 25 your report what those 2,388 companies were,

- 1 correct?
- 2 A. I did not.
- 3 Q. And you didn't do anything to confirm the
- 4 accuracy of PitchBook's reporting for each of those
- 5 2,388 companies that PitchBook identified; is that
- 6 correct?
- 7 A. I did look over the results, but I did
- 8 not see any inaccuracies.
- 9 Q. What does that mean, you looked over the
- 10 results?
- 11 A. I looked over the results.
- 12 Q. How much time did you spend looking at
- 13 the 2,388 companies?
- 14 A. Some.
- 15 Q. Did you spend a minute per company?
- 16 A. I don't recall how much time I spent, but
- 17 I did spend some time looking them over.
- 18 Q. If you had spent a minute per company and
- 19 there are 60 minutes in an hour, it would have had
- 20 to have taken you over -- over 20 more hours to look
- 21 at all 2,388 companies. Do you think you spent
- 22 more --
- 23 A. I did not.
- Q. To determine distressed outcomes, what
- 25 you did was you ran an exit filter for the term

- 1 "distress" from those 10,999 companies, correct?
- 2 A. Yes.
- O. What is an exit filter?
- A. PitchBook has search criteria for what
- 5 happened to the company, whether it exited
- 6 profitably or whether it exited distressed.
- 7 Q. They actually provide the term
- 8 "distressed"?
- 9 A. Yes.
- 10 Q. Okay. According to you, PitchBook
- 11 identified 720 companies out of the 10,999 as having
- 12 distressed outcomes, correct?
- 13 A. Yes.
- 14 Q. And that was about 7 percent of the
- 15 universe, right?
- 16 A. Yes.
- 0. But, again, you don't identify what any
- 18 of those 720 companies were, correct?
- 19 A. No. It was possible for anyone else to
- 20 do the same searches and would have gotten the same
- 21 results.
- Q. And you didn't confirm the accuracy of
- 23 each of the 720 companies that you say PitchBook
- 24 identified, correct?
- 25 A. No, I didn't.

- 1 Q. You agree, don't you, that if you had
- 2 narrowed the total number of companies from 10,999
- 3 to something less by adding key words to filter your
- 4 results, then the percentage of companies with
- 5 distressed outcomes would have been higher as a
- 6 result, correct?
- 7 A. I guess it depends on what the key words
- 8 were. If the key word actually narrowed it, then
- 9 the math you're suggesting would result in what
- 10 you're suggesting.
- 11 Q. So, for example, as a hypothetical, if
- 12 you had excluded three-quarters of the 10,999
- 13 companies from your initial results for some reason,
- 14 then the total number of companies in the universe
- 15 would have been reduced to the 2,550. You can take
- 16 my word for the math if you can't do it in your
- 17 head. That's three-quarters of 10,000.
- 18 A. Is this a hypothetical?
- 19 O. Yes.
- 20 A. If you say that that's what the math is,
- 21 I don't have any reason to disbelieve you.
- 22 Q. And so if the same 720 companies with
- 23 distressed outcomes were part of that hypothetical
- 24 2500-and-change total universe, the percentage of
- 25 companies with distressed outcomes hypothetically

- 1 would jump to over 28 percent, correct?
- 2 A. Again, I'm -- if that's what your math
- 3 says.
- Q. Okay. Turning to footnote 13, which is
- 5 your work with the SaaS category. You did the same.
- 6 You selected SaaS, which PitchBook defines a certain
- 7 way, and you came up with a universe of 13,767
- 8 VC-backed companies, right?
- 9 A. Yes.
- 10 Q. And, again, you didn't say what any of
- 11 these companies are, correct?
- 12 A. Well, they're SaaS companies.
- O. But you didn't identify the 13,767 hits
- 14 specifically, right?
- 15 A. I did not.
- 16 Q. And you didn't do anything to confirm the
- 17 accuracy of each of those search results, right?
- 18 A. Not specifically.
- 19 Q. You then ran the same search for
- 20 non-distressed exits, and you came out with 4,818
- 21 companies, right?
- 22 A. Yes.
- Q. And, I'm sorry, when you found the
- 24 universe, you didn't try to narrow that by adding
- 25 any key words, right?

- 1 A. I did not have to, no.
- O. Okay. And so you came up with 35 percent
- 3 non-distressed and 7 percent distressed, according
- 4 to what you did in footnote 13, correct?
- 5 A. Yes. Yes.
- 6 O. Okay. And, again, if we hypothetically
- 7 were to reduce the universe from 13,767 to something
- 8 less, percentage would rise of companies with
- 9 distressed outcomes, conceivably?
- 10 A. I just wasn't dealing with hypotheticals.
- 11 I was dealing with the actual results. So I --
- 12 Q. And then in footnote 14, you did the same
- 13 thing with the eCommerce category, correct?
- 14 A. I did.
- 15 O. ECommerce, you provided a definition,
- 16 supplied by PitchBook, right?
- 17 A. Yes.
- 18 Q. You didn't -- you came up with 4,813
- 19 companies, and you didn't try to narrow that at all
- 20 through the use of any key words, correct?
- 21 A. No, I did not require any narrowing.
- Q. And then you came up with your results
- 23 for distressed and non-distressed. So now let's
- 24 look at footnote 15 concerning what you called the
- 25 digital music sector.

- 1 Here you -- you say you selected venture
- 2 capital instead of VC-backed, but if I understood
- 3 your direct correctly, those are distinctions
- 4 without a difference?
- 5 A. Correct.
- 6 O. They have the exact same meaning
- 7 according to you?
- 8 A. Yes, they do. They actually are the same
- 9 thing. It's the same check box.
- 10 Q. Okay. The category of commerce you
- 11 selected here was called consumer products and
- 12 services (B2C) or business to consumer, correct?
- 13 A. Yes.
- Q. And unlike your other footnotes, here you
- 15 don't say how PitchBook defines the B2C -- B2C
- 16 category, do you?
- 17 A. I don't. It's a standard search
- 18 definition in PitchBook.
- 19 Q. Fair to say it's a broad category,
- 20 though?
- 21 A. Yes.
- Q. Also, unlike your methodology for mobile,
- 23 SaaS, and eCommerce, here you did add a key word,
- 24 the term "music," to narrow the total universe,
- 25 right?

- 1 A. Yes, I had to do that because PitchBook
- 2 does not have a search category for music or digital
- 3 music, whereas the other categories were
- 4 preexisting.
- 5 Q. And you don't say by how much that key
- 6 word narrowed the universe of this category, do you?
- 7 A. No.
- 8 Q. Do you recall how many companies were
- 9 eliminated?
- 10 A. So are you asking the question what would
- 11 the results have been of just venture capital-backed
- 12 B2C companies?
- 13 Q. Yes. Do you remember what that number
- 14 was?
- 15 A. I don't know that number.
- 16 Q. While you were making the industry more
- 17 particular for this part of your analysis, as we saw
- 18 you didn't try to make any of the other industries
- 19 you were using for comparisons, meaning the mobile,
- 20 SaaS, and eCommerce industries, any narrower; you
- 21 didn't similarly narrow any of those by the key word
- 22 "music," correct?
- 23 A. There would have been no reason to do
- 24 that, because my analysis specifically compared
- 25 venture capital investment into digital music

- 1 companies versus some of the other industries into
- 2 which venture capitalists invest in technology. So
- 3 PitchBook has automatic sorting, if you will, or
- 4 predefined key words for those searches, but does
- 5 not have a category for digital music. So I had to
- 6 narrow it in order to get accurate results.
- 7 Q. According to you, PitchBook identified
- 8 1,136 total VC-backed music B2C companies --
- 9 A. Yes.
- 10 Q. -- in your time period, correct?
- 11 A. That's correct.
- Q. And we don't know what any of those 1,136
- 13 companies specifically were, right?
- 14 A. Well, if you did the research, you --
- 15 Q. From your report.
- 16 A. -- you could have known.
- 17 Q. Now, here, whereas you accepted the total
- 18 search results that PitchBook gave you for the other
- 19 categories, mobile, SaaS, and eCommerce, you say you
- 20 did not accept the total search results of the 1,136
- 21 music B2C companies that you say PitchBook found;
- 22 and, instead, you say you excluded 897 companies
- 23 which were not companies in a business requiring the
- 24 licensing of music or of providing music-related
- 25 consumer utilities or Internet radio services or

- 1 whose primary application did not involve music in
- 2 some way. Correct?
- 3 A. That's right.
- 4 Q. And so as a result, you ended up
- 5 excluding more than three-quarters, almost
- 6 80 percent, of PitchBook's results based upon that
- 7 criteria that you applied, correct?
- 8 A. Yes, because they were not digital music
- 9 companies.
- 10 Q. And you don't say anywhere in your report
- 11 what any of those 897 companies that you excluded
- 12 specifically were, right?
- 13 A. I don't say that.
- Q. How long did it take you to go through
- 15 all 1,136 companies to determine which you were
- 16 going to exclude?
- 17 A. More than eight hours.
- 18 Q. Again, if you do just one minute per
- 19 company, divided by 60 minutes per hours, then 1,136
- 20 would be about 19 hours. That's if you spent one
- 21 minute per company.
- 22 You say you spent about eight hours.
- 23 A. I did. It was more than eight hours. I
- 24 don't remember the exact amount. It could have been
- 25 ten, but it was certainly on that order.

- 1 O. The companies that you excluded were not
- 2 excluded according to any PitchBook filter, right?
- 3 You excluded them in your own mind?
- A. Well, they were -- I did incorporate
- 5 PitchBook data. That is, PitchBook has information
- 6 on companies, explains the business they're in, and
- 7 so T did utilize some of PitchBook's information to
- 8 make that determination.
- 9 O. You said earlier that you had revealed
- 10 everything so that somebody else could re-create
- 11 your work, but with respect to --
- 12 A. I said they could have done these
- 13 searches.
- 14 Q. So you agree that somebody could not
- 15 re-create what you were doing in your mind with
- 16 respect to these 897 companies, right?
- 17 A. I think anyone could -- particularly an
- 18 expert in this space, could have gone through those
- 19 1136 companies and determined whether they were
- 20 digital music companies or not, applying the same
- 21 criteria.
- 22 Q. Same 897 companies, would have been
- 23 exactly the same as what you were doing in your
- 24 head, that's your position?
- 25 A. I -- I don't know if it will be -- if it

- 1 would be, but someone could have done the same
- 2 analysis.
- Q. On direct, you also said that you
- 4 researched publicly-available information to make
- 5 your determinations about what -- which of the --
- 6 about the 897 companies you excluded.
- 7 You didn't produce any of that supposed
- 8 publicly-available information as part of your
- 9 report, right?
- 10 A. No, I did not.
- 11 Q. We don't know what you considered,
- 12 correct?
- 13 A. I searched public articles in the
- 14 Internet and looked at publicly-available
- 15 information. I even went to the --
- 16 O. You can't answer that any more than
- 17 generally --
- JUDGE STRICKLER: I think he was still
- 19 answering the question.
- MR. CHARRON: Oh, I'm sorry.
- 21 THE WITNESS: Yeah, I also went to the
- 22 companies themselves to determine what business they
- 23 were in, what activities they undertook.
- 24 BY MR. CHARRON:
- 25 Q. So once you were -- excluded 837

- 1 companies, that left a universe of 239 companies,
- 2 right?
- 3 A. That's right.
- Q. And we don't know what any of those 239
- 5 companies specifically were from your report,
- 6 correct?
- 7 A. I -- I did not include them in the
- 8 report.
- 9 Q. Of those 239 companies, according to you,
- 10 PitchBook identified 65 as having non-distressed
- 11 exits?
- 12 A. Yes.
- 13 Q. But you independently struck two
- 14 companies from that list, Deezer and Rdio?
- 15 A. Yes.
- 16 Q. You struck Deezer because you said that
- 17 company has not actually exited the market, right?
- 18 A. At the time, it was not clear that Deezer
- 19 had. It didn't look like they had. There had been
- 20 some potentially private equity investment, but I
- 21 couldn't find any documentation supporting that they
- 22 had exited. And I --
- Q. So this -- I'm sorry.
- 24 A. Sorry. I think the private equity
- 25 investment fell into a category of -- that PitchBook

- 1 classifies as LBO or buyout, which gets classified
- 2 as a profitable exit. And so -- and also it gets
- 3 qualified as a -- as an exit.
- So I had -- I removed them because I
- 5 don't -- I didn't believe, couldn't find any
- 6 evidence at the time, that they had exited -- that
- 7 they had actually exited.
- 8 Q. So this was an instance where you didn't
- 9 agree with PitchBook's result?
- 10 A. It is. It is an example of that.
- O. You struck Rdio from PitchBook's results
- 12 because even though that company had a
- 13 non-distressed exit, you do not believe Rdio "exited
- 14 profitably," at least according to your research?
- 15 A. Well, according to the PitchBook data,
- 16 Rdio had raised, I believe, 129 million dollars and
- 17 had been sold in bankruptcy for, I think, 75 million
- 18 dollars. So it was -- it was not a profitable exit.
- 19 It -- it was actually a distressed exit.
- Q. Now, of the 239 VC-backed music B2C
- 21 companies that you decided not to exclude, you say
- 22 PitchBook identified 37 as having distressed
- 23 outcomes, right?
- 24 A. Yes.
- Q. And that's about 15.5 percent, correct?

- 1 A. Yes.
- 2 Q. And we don't know from your report what
- 3 each of these 37 companies is, correct?
- JUDGE STRICKLER: When you say what they
- 5 -- what they are, you mean their names?
- 6 MR. CHARRON: Correct.
- 7 THE WITNESS: Yes, their names are not in
- 8 my report.
- 9 BY MR. CHARRON:
- 10 Q. And if I understood your direct
- 11 correctly, you're now claiming that figure might
- 12 drop to 26? You did some new analysis that would
- 13 come up with a figure of 26?
- 14 A. I -- not the 37 figure, would not drop to
- 15 26. The -- the --
- 16 Q. If you had --
- 17 A. Sorry, I didn't -- I don't think I
- 18 answered your question.
- 19 O. Well, I asked if 37 dropped to 26, and
- 20 you said no.
- 21 A. No, that's not correct. That's not --
- Q. The 37, you're still --
- 23 A. I'm not making that claim. Yes.
- Q. You're sticking with the 37?
- 25 A. I am.

- 1 Q. Then you've answered my question. If you
- 2 had not excluded nearly 80 percent of the 1,136
- 3 companies that PitchBook had initially identified,
- 4 the percentage of companies with distressed outcomes
- 5 would have dropped, right?
- A. Are you asking a hypothetical?
- 7 Q. Yes.
- 8 A. That sounds correct, yes.
- 9 O. In fact, if we stuck with the same 37
- 10 companies identified with distressed outcomes, the
- 11 percentage would have dropped from 15.5 percent to
- 12 just 3.2 percent, correct? Hypothetically.
- 13 A. I -- I went with what the data said, not
- 14 the hypothetical that you're suggesting.
- Q. Are there any other categories, other
- 16 than B2C, within PitchBook that you could have
- 17 selected to try to figure out the digital music
- 18 sector?
- 19 A. So I did look, I did perform a number of
- 20 other searches prior to this to figure out which one
- 21 captured the most number of companies, which one
- 22 could be as most comprehensive as possible. There
- 23 are other sectors. For instance, you could have
- 24 selected like physical retail or enterprise
- 25 software, but I didn't select those because those

- 1 did not produce a comprehensive listing of all
- 2 companies, a super set of what could be involved in
- 3 digital music.
- 4 O. Doesn't PitchBook have a category called
- 5 entertainment software?
- 6 A. I believe -- I believe it's entertainment
- 7 and media. And I don't believe it's software, but I
- 8 can't be sure.
- 9 Q. But you chose not to select that
- 10 category?
- 11 A. Well, I did experiment with a significant
- 12 amount of PitchBook search criteria and found that
- 13 other -- other search criteria produced a more
- 14 limited result that was not complete.
- Q. And we don't know from your report what
- 16 any of this analysis you say you did was, correct?
- 17 A. I did not disclose that -- that part of
- 18 my analysis.
- 19 Q. All right. In paragraph 27-A of your
- 20 report, you say, and I quote, "venture investors
- 21 expect to achieve a multiple return of 5 to 10 times
- 22 the amount of money invested for an investment to be
- 23 deemed a success."
- 24 Do you see that?
- 25 A. Yes.

- 1 Q. And you don't cite to any outside support
- 2 for that statement; you're relying on your own
- 3 experience and belief here, correct?
- A. As a venture investor, yes.
- 5 Q. With that standard, you say that you
- 6 believe only seven digital music companies achieved
- 7 meaningful venture returns for their investors,
- 8 right?
- 9 A. The standard I referred to is the 25
- 10 million dollars of total return, profit to
- 11 investors.
- 12 O. So not the 5 to 10 time return?
- A. Right, I'm using 25 million as a proxy
- 14 for an investor in the early stages, in the general
- 15 amount of capital that is invested in these
- 16 companies, and if they were to achieve a 25 million
- 17 dollar profit, that generally could result in a
- 18 multiple of 5 to 10 times the amount of invested --
- 19 amount of money invested.
- 20 Q. How many digital music companies that you
- 21 looked at had a return of their initial capital plus
- 22 at least one dollar?
- 23 A. 26.
- Q. That's the 26 you said earlier. So then
- 25 11 companies within your universe of 37 -- no?

- 1 A. 37 is distressed. I'm sorry, finish your
- 2 question. I'm sorry. Finish your question.
- O. I'm just trying -- well, never mind. I
- 4 -- I think I understood it.
- 5 How many -- well, strike that.
- You identify Pandora as one of seven
- 7 companies that you say you believe achieved a
- 8 meaningful venture return through an acquisition.
- 9 Do you see that?
- 10 A. Not through acquisition but for their
- 11 investors because they went -- they went public.
- 12 Q. You agree Pandora has not been acquired?
- 13 A. I do. Did I say that they were acquired?
- Q. I believe your paragraph reads that way,
- 15 but --
- 16 JUDGE STRICKLER: Which paragraph?
- 17 BY MR. CHARRON:
- 18 O. 27-A
- 19 A. Last.FM, Spinner, MP3.com, Gracenote,
- 20 Thumbplay, Pandora, and possibly The Echo Nest
- 21 achieved meaningful venture returns for their
- 22 investors, period.
- 0. I might have been confused by it.
- 24 And in paragraph 27-B, you refer again to
- 25 the 21.7 percent success rate for venture

- 1 capitalists in the mobile industry, right?
- 2 A. Yes.
- Q. Now, here you say that success rate is
- 4 based on companies achieving -- companies that
- 5 achieved an exit bringing a profitable return to
- 6 their investors.
- 7 A. Yes.
- 8 Q. That was -- and by that, you meant
- 9 initial capital plus at least a dollar?
- 10 A. Yes.
- 11 Q. Okay. So when you say in paragraph 27-B,
- 12 approximately 2,388 have achieved a successful exit
- 13 for a success rate of 21.7 percent, you then say "as
- 14 compared to 3 percent for digital music services."
- 15 Do you see that?
- 16 A. I do.
- 17 O. So here one statistic is based on one
- 18 standard of success, meaning initial capital plus at
- 19 least a dollar, and the other standard is based upon
- 20 your 25 million dollar return, correct?
- 21 A. Yes.
- Q. And that's not apples-to-apples, as you
- 23 were asked about on your direct; wouldn't you agree?
- A. Right. That's the 26, which would
- 25 compare 21.7 percent to 10 percent for digital music

- 1 services.
- 2 O. And that would be the same
- 3 non-apples-to-apples comparison for the other
- 4 categories you've compared in this paragraph, right?
- 5 A. Sorry. So the 21.7 percent, the
- 6 35 percent, and the 20.5 percent success rate of
- 7 profitable returns for their investors in those
- 8 three categories would compare to the 10 percent for
- 9 digital music.
- 10 Q. Okay. Can you turn to paragraph 29 on
- 11 page 14 of your report. You assert that "it would
- 12 be a sign of an unhealthy market if the only
- 13 remaining digital music services are those owned by
- 14 larger companies content to subsidize their music
- 15 subsidiaries while generating profit elsewhere in
- 16 the businesses." Right?
- 17 A. Yes, I say that.
- 18 Q. The term "unhealthy market" is your term,
- 19 right?
- 20 A. Yes, it is.
- Q. You didn't define that term or offer any
- 22 scholarship that supplied such a term with any
- 23 precise meaning, correct?
- A. I'm using my own set of professional
- 25 experience to make that decision.

- 1 Q. Are you familiar with the term "economic
- 2 profit"?
- 3 A. I've heard that term.
- 4 Q. An economic profit reflects that a
- 5 company is utilizing its resources overall in a
- 6 profitable way, correct?
- 7 A. I don't know the exact definition.
- 8 Q. Would you agree that a company might have
- 9 a line of business that itself suffers an accounting
- 10 loss but that company may overall enjoy an economic
- 11 profit?
- 12 A. In that sentence, what do you mean by an
- 13 "accounting loss"?
- 14 O. GAAP. GAAP loss.
- 15 A. Okay. So now would you repeat the
- 16 question?
- 17 Q. Do you agree that a company might have a
- 18 line of business that itself suffers an accounting
- 19 loss, but -- but the company may overall enjoy an
- 20 economic profit in a market?
- 21 A. That's -- that could be true. It may be
- 22 true. It's not the way venture capitalists look at
- 23 success or failure.
- Q. Do you have an opinion about whether
- 25 Apple enjoys an economic profit in the digital music

- 1 market?
- 2 A. I don't have specific information on
- 3 Apple to make that determination.
- 4 O. Same question for Amazon.
- 5 A. I don't have any specific information.
- 6 Q. Same for Google?
- 7 A. I don't have any specific information.
- 8 O. And you're not aware of any of those
- 9 companies considering exiting the digital music
- 10 market, right?
- 11 A. No.
- 12 Q. And that is so even though none of them
- 13 may be enjoying accounting profits for those lines
- 14 of business, correct?
- 15 A. The answer is still no.
- 16 Q. In fact, Apple continues to invest
- 17 heavily in the digital music market, purchased Beats
- 18 for 3 billion dollars, as we talked about earlier,
- 19 correct?
- 20 A. The purchase of Beats is not an
- 21 indication of Apple investing heavily in the digital
- 22 music market.
- O. In paragraph 28 of your report, sticking
- 24 on page 14, you say that Pandora has not been
- 25 profitable on a GAAP basis, right?

- 1 A. Yeah, I understand Pandora has never been
- 2 profitable on an annual basis, according to GAAP.
- 3 And I believe they were -- I think they were
- 4 profitable for one-quarter or maybe two in their
- 5 existence of a public company, as a public company.
- O. Pandora wasn't in the interactive --
- 7 interactive streaming business until last week,
- 8 though, right?
- 9 A. They've been a digital music company
- 10 since the day they started.
- 11 Q. Why should we be looking at Pandora's
- 12 GAAP profits rather than at Pandora's economic
- 13 profits, according to you?
- 14 A. This entire report is based on a
- 15 determination of profits, whether revenues minus
- 16 costs produces profitable cash flows such that no
- 17 additional investment is required. So my evaluation
- 18 of -- of Pandora in this respect is consistent with
- 19 that.
- 20 JUDGE STRICKLER: But earlier in your
- 21 direct, didn't you say that venture capitalists have
- 22 a longer time horizon measured like eight or ten
- 23 years or so?
- 24 THE WITNESS: That's right.
- JUDGE STRICKLER: Doesn't that suggest

- 1 that venture capitalists are not interested in
- 2 year-to-year GAAP profits but are, in fact, looking
- 3 at economic profits, which is the -- as counsel laid
- 4 the definition out, an efficient use of -- of inputs
- 5 over a longer term to -- to create ultimately a
- 6 positive cash flow?
- 7 THE WITNESS: So I understand the
- 8 question. Venture capitalists have to believe that
- 9 a company -- that the investment will produce an
- 10 increase of value. The company will create more
- 11 enterprise value. And you also have to believe
- 12 that, at some point, they will no longer need
- 13 additional investment capital. That is, they will
- 14 be self-sustaining.
- Now, I think we're using some
- 16 intermediary terms to get to that main point, but
- 17 that is the point. That's the lens through which we
- 18 as venture capitalists think. Are they building
- 19 enterprise value and will they reach a point where
- 20 they no longer consume outside capital to survive?
- JUDGE STRICKLER: So is it fair to say
- 22 that GAAP profits or losses from year to year are --
- 23 constitute some evidence of whether that progress is
- 24 being made but it is not the standard alone that a
- 25 venture capitalist looks at?

- 1 THE WITNESS: Yes. Venture capitalists
- 2 are investing almost exclusively in private
- 3 companies which have not undertaken strict -- the
- 4 use of strict GAAP definitions. So your use of that
- 5 term in the question is throwing me a bit because we
- 6 do look at profit and loss statements on a monthly
- 7 or quarterly basis, and we're looking at the --
- 8 whether the -- how much cash the business is
- 9 burning. How much of its cash reserves is it using.
- 10 JUDGE STRICKLER: Thank you for that
- 11 clarification. So let me drop the GAAP
- 12 characterization --
- 13 THE WITNESS: Okay.
- 14 JUDGE STRICKLER: -- and just distinguish
- 15 between accounting profits and losses and economic
- 16 profits or losses.
- 17 So is it fair to say, then, that as a
- 18 venture capitalist, you look at economic profit over
- 19 the long term, and accounting profit from year to
- 20 year is evidence of whether or not progress is being
- 21 made towards that long-term economic profit?
- 22 THE WITNESS: I think that's close. I
- 23 would just substitute -- we don't -- at least at
- 24 Venrock, we don't discuss the terminology of
- 25 economic profit. We discuss enterprise value. Is

- 1 the company building value? And -- and how much
- 2 cash is it consuming on an ongoing basis in order to
- 3 build that value?
- I believe the concepts are similar. So I
- 5 think I'm generally agreeing with your -- with your
- 6 notion, but the -- one way that we look at the
- 7 health of the business is how much cash are they
- 8 consuming versus how much value are they building,
- 9 and are they likely to reach a point when they no
- 10 longer need more cash from us?
- JUDGE STRICKLER: So does that mean
- 12 you're looking at long term where eventually there
- 13 are free cash flows? That's the measure that you're
- 14 looking for?
- 15 THE WITNESS: I think there are multiple
- 16 ways to get to what is enterprise value. Some
- 17 public market investors, particularly, would use
- 18 free cash flow as a mechanism for determining
- 19 enterprise value, but in early stages of venture
- 20 investing and for private companies, usually no.
- 21 Usually, the enterprise value is on some other
- 22 multiple, a multiple of revenues, a multiple of
- 23 profits, the -- is there a potential strategic value
- 24 to an acquirer.
- JUDGE STRICKLER: Thank you.

- 1 BY MR. CHARRON:
- Q. So you did not conduct any analysis to
- 3 determine if Spotify enjoys an economic profit,
- 4 correct?
- 5 A. I did not.
- 6 Q. And Spotify is a standalone digital music
- 7 provider, correct?
- 8 A. Yes, it is.
- 9 Q. Would you turn to Exhibit H-2678.
- 10 A. I'm there.
- 11 Q. This article notes that Spotify has yet
- 12 to show a profit even as it spends to grow. That's
- 13 consistent with your understanding as well, correct?
- 14 A. Yes, it is.
- 15 MR. CHARRON: Your Honors, I move for
- 16 admission of H-2678.
- 17 MR. STEINTHAL: Same comment as
- 18 previously.
- 19 JUDGE BARNETT: 2678 is admitted.
- 20 (Copyright Owners Exhibit Number 2678 was
- 21 marked and received into evidence.)
- 22 BY MR. CHARRON:
- Q. The article goes on to quote a venture
- 24 capital backer of Spotify known as Northzone. Do
- 25 you know Northzone?

- 1 A. I don't.
- Q. Northzone was quoted as saying, despite
- 3 Spotify's lack of accounting profit, Spotify is
- 4 focusing on "growth, growth, growth." Do you see
- 5 that?
- 6 A. I do see that, yeah.
- 7 Q. So at least this venture capitalist
- 8 believes it's economically rational to continue to
- 9 grow Spotify, despite its current lack of accounting
- 10 profits. Wouldn't you agree?
- 11 A. Yeah, he seems to say that.
- 12 O. This article continues by saying that
- 13 Spotify's 8 billion dollar valuation "would be
- 14 Europe's biggest tech listing since the market
- 15 launch of German eCommerce investor Rocket Internet
- 16 in 2014." Do you see that?
- 17 A. I see that.
- Q. Does Spotify's ongoing subscriber growth
- 19 and high valuation reflect an unhealthy market, in
- 20 your opinion?
- 21 A. In order to determine whether a market is
- 22 healthy or unhealthy, you'd have to look at the --
- 23 what's happening across all participants. Spotify
- 24 is one participant. Their -- their growth is an
- 25 indicator that there's more demand. The fact that

- 1 they are not profitable and never have been
- 2 profitable is an indication that there's trouble in
- 3 the market, and so much as this is, I believe, the
- 4 largest provider of -- has the largest number of
- 5 subscribers in interactive music streaming,
- 6 something like 50 million, and has been around since
- 7 2006 and yet is still unable to achieve
- 8 profitability.
- 9 Another indication that Spotify --
- 10 Spotify's current state is not -- may not indicate a
- 11 healthy market is the terms of their last financing,
- 12 which were severe, and surely Spotify would have
- 13 been happy to take a financing on less onerous
- 14 terms. And the fact that their IPO keeps getting
- 15 put off, I think, indicates that the company is not
- 16 in the best financial situation.
- 17 The last point I'd make about this
- 18 article is this so-called valuation of 8 billion
- 19 dollars and the idea that that would be Europe's
- 20 largest listing seems to presume that Spotify, A,
- 21 will go public and, B, will go public at a valuation
- 22 of 8 billion dollars, neither of which we know to be
- 23 true today.
- JUDGE STRICKLER: You say that the
- 25 financing that Spotify has received is -- has some

- 1 severe restrictions --
- THE WITNESS: Terms.
- JUDGE STRICKLER: -- as it relates to
- 4 convertibility of debt into equity. Severe terms.
- 5 Are they severe -- when you say they're severe, are
- 6 they severe relative to what venture capitalists
- 7 usually want with regard to -- to technology
- 8 companies when they make their investments?
- 9 THE WITNESS: I think you asked are they
- 10 more severe than the terms under which venture
- 11 capitalists invest?
- JUDGE STRICKLER: That's what I meant in
- 13 the question.
- 14 THE WITNESS: Yes, they are considerably
- 15 more severe.
- 16 JUDGE STRICKLER: Thank you.
- 17 BY MR. CHARRON:
- 18 Q. Is there anything wrong, in your opinion,
- 19 with a business operating at low margins?
- 20 A. It's just harder to become profitable.
- Q. Can such a business grow and be
- 22 successful?
- 23 A. Some can. It's harder for sure, and I
- 24 think the failure rates are higher among lower
- 25 margin business than among higher margin business.

- 1 Also, lower margin business tends to get lower
- 2 multiples on -- at exit. And so venture capitalists
- 3 are usually looking for the greatest multiple, the
- 4 highest amount at exit. And so we prefer higher
- 5 margin businesses for that reason.
- Q. Do you know what the margins are for
- 7 Amazon's business?
- 8 A. All of Amazon?
- 9 Q. Yes.
- 10 A. I don't know currently.
- JUDGE STRICKLER: Do venture capitalists
- 12 -- I'm sorry -- typically seek in technology
- 13 businesses higher -- what debt financing do they
- 14 seek? Do they require higher interest rates than
- 15 institutional investors?
- 16 THE WITNESS: For the most part, almost
- 17 universally, venture capitalists don't offer debt.
- 18 They offer, for the most part, equity financing,
- 19 which don't have interest rates associated with
- 20 them. Sometimes there is a -- there is a term --
- 21 I'm speaking very generally here. Sometimes there
- 22 is a term in the very early stages of a company
- 23 where they will offer a convertible note. It's
- 24 intended to be an equity financing.
- 25 And so it will convert into equity,

- 1 provided the company can raise more money in the
- 2 future. But in the event that the company can't,
- 3 they ostensibly treat it as a loan with an interest
- 4 rate. It's -- it's not uncommon, but what would
- 5 certainly be uncommon is to ever pay that loan --
- 6 that loan back. Almost universally the expectation
- 7 is that it will convert into equity. So for the
- 8 most part, venture capitals are not debt providers.
- 9 JUDGE STRICKLER: Is there an implicit
- 10 interest rate, though, even after it converts?
- 11 THE WITNESS: No, after it converts, it's
- 12 -- it does not get paid back in any -- well,
- 13 generally, again, because terms can vary, after it
- 14 converts, its equity and the -- the expectation is
- 15 not that you're going to pay back the capital, like
- 16 you would a loan, but that we as venture capitalists
- 17 will receive our liquidity at the time of the
- 18 company's liquidity, either on an M&A outcome or an
- 19 IPO.
- JUDGE STRICKLER: Thank you.
- 21 BY MR. CHARRON:
- Q. Could you turn to paragraph 38 of your
- 23 report. At the very top of page 19 within that
- 24 paragraph, you say, "The current system also stifles
- 25 the return to Copyright Owners by limiting the

- 1 distribution of music."
- 2 Do you see that?
- 3 A. Yes.
- 4 O. You haven't offered any evidence the
- 5 availability of digital music streaming is
- 6 shrinking, have you?
- 7 A. I do believe that by having fewer
- 8 providers that that stifles the return to copyright
- 9 owners because it limits the number of distributors
- 10 of music.
- 11 Q. Right, but that wasn't my question. My
- 12 question was you haven't offered any evidence that
- 13 the availability of digital music streaming itself
- 14 is shrinking, right?
- 15 A. No.
- 16 MR. CHARRON: I have no further
- 17 questions. Thank you.
- 18 JUDGE BARNETT: Mr. Steinthal?
- 19 MR. STEINTHAL: Just one or two of the
- 20 same subject.
- 21 REDIRECT EXAMINATION
- 22 BY MR. STEINTHAL:
- Q. Do you recall being asked some questions
- 24 about what you inquired was -- and asked whether it
- 25 was a hypothetical concerning the numbers associated

- 1 with 37 distressed exits out of 239 digital music
- 2 companies?
- 3 A. Yes.
- Q. Okay. Let me ask you, the -- the
- 5 hypothetical you were asked was if there were 37
- 6 distressed exits and you applied that number to the
- 7 1136 companies that you initially examined before
- 8 reducing the universe to 239 digital music
- 9 companies, you agreed with the proposition that 37
- 10 out of 1136 is a lower percentage than 37 out of
- 11 239, correct?
- 12 A. Yes.
- 13 Q. If you were trying to determine what the
- 14 percentage of distressed exits of the 1136 companies
- 15 were, would you need to know how many distressed
- 16 exits occurred of the 897 companies you excluded?
- 17 A. No.
- 18 Q. In order to do the apples-to-apples
- 19 comparison of --
- 20 A. Oh, if I was to compare the 1139, yes, I
- 21 would have had to do a search of all 1139 and look
- 22 at the distressed exits.
- O. Okay. And if -- if you were looking at,
- 24 again, the success rates and failure rates of a
- 25 universe of companies that was smaller than the

- 1 initial sectors that you looked at when you were
- 2 asked whether if you had applied a screen you might
- 3 have lowered the number, it's true, is it not, that
- 4 by using the success and -- the number of distressed
- 5 exits and successful exits against a smaller unit
- 6 post-screen, by definition, you would have a higher
- 7 number, right?
- 8 A. Yes.
- 9 O. But if you wanted to get at the actual
- 10 success rate and actual failure rate, you would have
- 11 to look at all those companies that were excluded in
- 12 the hypothetical to determine whether they had
- 13 distressed sales or successful exits?
- 14 A. Yes, that's right. Yes, that's right.
- 15 MR. STEINTHAL: I have nothing further.
- MR. CHARRON: Nothing further.
- JUDGE BARNETT: Thank you, Mr. Pakman,
- 18 you may be excused.
- 19 THE WITNESS: Thank you very much, Your
- 20 Honors.
- 21 MS. MAZZELLO: Your Honor, Apple will be
- 22 calling David Dorn next. He's the next live
- 23 witness. Before that, we wanted to put in the
- 24 testimony of Rob Wheeler, iTunes controller. He's
- 25 one of the witnesses who will not be appearing live,

- 1 pursuant to the agreement with the Copyright Owners.
- JUDGE BARNETT: Okay. Thank you. And do
- 3 we have an exhibit number? Has it been marked?
- 4 MS. MAZZELLO: We do. So we're putting
- 5 in -- the binder is coming up to you now -- his
- 6 direct testimony, which is Exhibit 1613R, his
- 7 rebuttal testimony, which is 1614R, and also two
- 8 documents that were attached to his written direct
- 9 testimony. That's document -- Exhibits 775 and
- 10 1437R.
- MR. SCIBILIA: Your Honor, good morning,
- 12 Your Honor. We do not object to the introduction of
- 13 the statements. We object to the introduction of
- 14 one of the exhibits, which is Apple Exhibit 775.
- 15 And this is a P&L spreadsheet showing, once again,
- 16 cost allocations made by Apple to both their
- 17 download and their streaming business, again,
- 18 without any information regarding Apple's overall
- 19 revenues to which these costs are allocated and
- 20 without any other evidence of the methodology used
- 21 in the allocation.
- 22 And as I believe Your Honors have noted
- 23 with respect to a similar Amazon exhibit, costs in a
- 24 vacuum are irrelevant, and that's a problem with
- 25 this exhibit and that's why we object to it.

- 1 MS. MAZZELLO: Your Honor, it sounds as
- 2 though they're making an objection that this is an
- 3 improper summary. They did not raise that objection
- 4 when we exchanged our objection list back on March
- 5 1st. I understand that any objection not raised
- 6 during that exchange has been waived, except for
- 7 relevancy. So they've waived this objection, and
- 8 the document should be admitted on that basis.
- 9 Also, this is a P&L statement prepared by
- 10 a controller at iTunes. This is the type of report
- 11 he would prepare in the ordinary course of business.
- 12 It's within the scope of his responsibilities. And
- 13 it gives just specific cost and revenue information
- 14 about that company.
- 15 If they had questions about it, they
- 16 could have deposed him or they could have
- 17 cross-examined him here. I believe there was a
- 18 similar document with Mr. Alyeshmerni, which was
- 19 admitted, and their questions went to weight rather
- 20 than admissibility.
- In terms of costs in a vacuum, this does
- 22 have revenue numbers, and you can see revenues
- 23 compared to costs. It also has value because you
- 24 can see the iTunes download business as compared to
- 25 the streaming business. We've heard arguments that

- 1 the download business is -- that market is drying
- 2 up, and this will give the Court relevant
- 3 information as to the size of the download business.
- 4 MR. SCIBILIA: Just in terms of the
- 5 waiver issue, Your Honor, we did object on
- 6 foundation grounds, which is the basis for my
- 7 objection today.
- And also, you know, the notion that we
- 9 didn't depose this witness, we had ten depositions.
- 10 There are five services. We can't possibly depose
- 11 everybody, and our failure to our depose every
- 12 witness is not a waiver of our objection.
- MS. MAZZELLO: Your Honor, their
- 14 foundation objection was specifically limited to
- 15 testimony where the preferring participant may not
- 16 be doing so on personal knowledge or with respect to
- 17 documents unknown to the witness.
- Mr. Wheeler testified that he personally
- 19 prepared this document.
- 20 JUDGE BARNETT: Counsel, you said there
- 21 was something, information here about iTunes as well
- 22 as streaming. I can't interpret this document. Am
- 23 I looking at something different?
- MS. MAZZELLO: So in the top half of it,
- 25 you have the music downloads.

- JUDGE BARNETT: Oh, thank you.
- MS. MAZZELLO: Which is iTunes.
- JUDGE BARNETT: It's pretty obvious.
- 4 MS. MAZZELLO: No problem. And
- 5 Mr. Wheeler does provide some more information about
- 6 the document in his testimony.
- 7 MR. SCIBILIA: Not the basis for the cost
- 8 allocations, Your Honor.
- 9 JUDGE BARNETT: The objection is
- 10 overruled.
- MS. CENDALI: Your Honor, given -- it's
- 12 obviously up to the Court, but given the closeness
- 13 to the lunch break, I'm wondering if it would make
- 14 more sense for us to start Mr. Dorn's exam after
- 15 lunch.
- 16 JUDGE BARNETT: It would. And maybe that
- 17 means we'll get to the head of the line in the
- 18 cafeteria. We will be at recess until 12:55.
- 19 MS. CENDALI: Thank you, Your Honor.
- JUDGE BARNETT: Before we break, those
- 21 four exhibits offered by Apple with regard to
- 22 Mr. Wheeler's testimony are admitted.
- 23 (Apple Exhibit Numbers 1437R, 1613R,
- 24 1614R were marked and received into evidence.)
- 25 (Google Exhibit Number 775 was marked and

```
1 received into evidence.)
                (Whereupon, at 11:57 a.m., a lunch recess
2
   was taken.)
3
4
5
6
 7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
23
24
25
```

1	AFTERNOON SESSION
2	(1:05 p.m.)
3	JUDGE BARNETT: Please be seated. I have
4	an announcement of general interest to this group.
5	Specific interest, I presume, to you folks.
6	The Librarian has signed off on the
7	Subpart A regulations, and they will be published in
8	a couple of days, as proposed.
9	Ms. Cendali?
10	MS. CENDALI: Thank you, Your Honor.
11	Apple would like to call David Dorn to the stand.
12	JUDGE BARNETT: Before you sit down,
13	raise your right hand, please.
14	Whereupon
15	DAVID DORN,
16	having been first duly sworn, was examined and
17	testified as follows:
18	JUDGE BARNETT: Please be seated.
19	MS. CENDALI: Good afternoon, Your
20	Honors. As indicated, I am Dale Cendali of Kirkland
21	& Ellis, and we represent Apple.
22	Before I begin, I wanted to let you know
23	the current agreement with the Copyright Owners.
24	Mr. Dorn will be testifying today both with regard
25	to his written direct testimony and also with regard

- 1 to his rebuttal testimony.
- JUDGE BARNETT: Thank you.
- 3 DIRECT EXAMINATION
- 4 BY MR. CENDALI:
- 5 Q. Would the witness please introduce
- 6 himself to the Court.
- 7 A. Hi. I am David Dorn.
- 8 Q. Where do you work?
- 9 A. I work for Apple.
- 10 Q. How long have you worked at Apple?
- 11 A. I have been with Apple for five years. I
- 12 joined in July of 2012.
- 13 Q. What is your current title?
- 14 A. I am the senior director of Apple Music.
- 15 Q. Could you briefly describe Apple Music?
- 16 A. Sure. Apple Music is the umbrella name
- 17 that we use for our music ecosystem, and that music
- 18 ecosystem encompasses three things. First is the
- 19 iTunes Music Store, which you are probably familiar
- 20 with; and second is the Apple Music subscription
- 21 service, and the third component is our Beats 1
- 22 broadcast service. It is a 24/7 live streaming
- 23 radio broadcast.
- Q. What are your responsibilities as senior
- 25 director of Apple Music?

- 1 A. So I am the day-to-day manager,
- 2 worldwide, of the music business. And what that
- 3 encompasses is artists and label relations, all
- 4 programming, merchandising, business analytics,
- 5 product development, a number of things. Those are
- 6 a few of those things.
- 7 Q. Mr. Dorn, as senior director of Apple
- 8 Music, are you familiar with Apple's deals with
- 9 music labels and publishers?
- 10 A. I am.
- 11 Q. Now, prior to joining Apple Music, did
- 12 you have any other experience in the music industry?
- 13 A. Yes. I have been in the music industry
- 14 for about 35 years. Actually grew up in the music
- 15 industry, so I had quite a bit of experience even
- 16 before that.
- 17 My father was in the music business,
- 18 multi-Grammy award winning record producer, produced
- 19 songs.
- Q. Can you give some examples?
- 21 A. He produced songs you may know like
- 22 "Killing Me Softly," Roberta Flack, and "First Time
- 23 Ever I Saw Your Face" and many, many others. So I
- 24 grew up in recording studios. I was a musician
- 25 as -- when I was a lot younger as a kid, and I

- 1 eventually became a recording engineer and worked
- 2 with many of my heroes, Keith Richards, Pete
- 3 Townsend, Billy Joel, on and on. Those are just a
- 4 few examples.
- I switched it after that to working on
- 6 the business side, working for an independent record
- 7 company and then moving on to working for a company
- 8 called Rhino, which was acquired by Warner Music
- 9 Group, where I was for 20 years before being hired
- 10 by Apple.
- 11 And I have pretty much seen every facet
- 12 of the music industry, pretty much everyone that you
- 13 could name and have worked across all of these
- 14 businesses for many years.
- 15 Q. Now, did you prepare written direct
- 16 testimony in this proceeding?
- 17 A. I did.
- 18 O. Could you please turn to the tab in the
- 19 binder in front of you marked Apple Trial Exhibit
- 20 1611R. It should be the first one.
- 21 A. It is the first one. Thank you.
- 22 Q. Do you recognize that?
- 23 A. I do recognize that.
- Q. Is it your written direct testimony?
- 25 A. That is my written testimony.

- 1 O. Would you please look at the last page of
- 2 that document and let me know if that's your
- 3 signature?
- 4 A. That is my signature.
- 5 MS. CENDALI: Your Honors, I move to
- 6 admit Apple Trial Exhibit 1611R into evidence.
- 7 MS. ARORA: No objection.
- 8 JUDGE BARNETT: Admitted.
- 9 (Apple Exhibit Number 1611R was marked
- 10 and received into evidence.)
- 11 BY MR. CENDALI:
- 12 Q. I'm sorry, forgive me, Your Honor.
- JUDGE BARNETT: No problem. Admitted.
- 14 BY MR. CENDALI:
- 15 Q. If you could turn to the next tab of the
- 16 witness binder in front of you marked Apple Trial
- 17 Exhibit 1612R. Do you recognize that document?
- 18 A. I do.
- 19 Q. What is it?
- 20 A. That is my rebuttal testimony.
- 21 O. And, again, would you please turn to the
- 22 last page of that document and let us know if that's
- 23 your signature?
- 24 A. That is my signature.
- MS. CENDALI: Your Honors, I move to

- 1 admit Exhibit 1612R into evidence.
- 2 MS. ARORA: No objection.
- JUDGE BARNETT: Admitted.
- 4 (Apple Exhibit Number 1612R was marked
- 5 and received into evidence.)
- 6 BY MR. CENDALI:
- 7 Q. Thank you. Now, Mr. Dorn, are the rest
- 8 of the documents in your binder documents that you
- 9 relied on in preparing your written testimony or
- 10 that you are familiar with in your position at
- 11 Apple?
- 12 A. Yes, they are.
- 13 MS. CENDALI: And, Your Honors, I am
- 14 happy to report that we have discussed these
- 15 exhibits with the Copyright Owners prior to this
- 16 moment, and they have no objections to the
- 17 admissibility of the following exhibits, which I
- 18 would like to read in with the Court's permission.
- 19 JUDGE BARNETT: Thank you.
- MS. CENDALI: I thus move to admit into
- 21 the evidence the following documents: 776, 777,
- 22 1431, 1432R, 1433R, 1434R, 1435R, 1436R, 1439, 1440,
- 23 1441, 1442, 1585R, 1586R, 1587R, 1588R, 1589R,
- 24 1590R, 1592, 1593, 1594, 1595, and 1596.
- JUDGE BARNETT: Are we agreed that those

- 1 are agreed?
- MS. ARORA: Yes, we are.
- JUDGE BARNETT: Those enumerated exhibits
- 4 are all admitted.
- 5 (Google Exhibit Numbers 776 and 777 were
- 6 marked and received into evidence.)
- 7 (Apple Exhibit Numbers 1431, 1432R,
- 8 1433R, 1434R, 1435R, 1436R, 1439, 1440, 1441, 1442,
- 9 1585R, 1586R, 1587R, 1588R, 1589R, 1590R, 1592,
- 10 1593, 1594, 1595, and 1596 were marked and received
- 11 into evidence.)
- MS. CENDALI: Thank you.
- 13 BY MR. CENDALI:
- 14 O. Now, let's go back to the substance of
- 15 your testimony, Mr. Dorn. I believe you said that
- 16 you have been involved in the music industry for
- 17 about 35 years?
- 18 A. That's correct.
- 19 O. Have you noticed any changes in the past
- 20 35 years?
- 21 A. Yes, I have noticed significant changes.
- Q. Could you tell us about some?
- 23 A. So I'm old enough to remember when we
- 24 were in the vinyl-only era, and then cassettes. We
- 25 moved from that to the compact disk. From compact

- 1 disk we moved to downloads being the primary format.
- 2 And now we are in a transition phase once
- 3 again with a new format that has started to build a
- 4 level of maturity, which is the music subscription
- 5 service, which is streaming.
- Q. And in your experience in the music
- 7 industry, have you ever dealt with piracy issues?
- 8 A. I have. So I have been working in the
- 9 digital end of the business since about the
- 10 mid-'90s, and so I lived through the Napster era and
- 11 other file trading issues that affected the music
- 12 industry.
- Q. Did Apple in your view do anything to
- 14 help alleviate the piracy issue?
- 15 A. Yeah, I think that Apple was a
- 16 significant contributor to helping to solve that
- 17 problem. The launch of the iTunes Music Store in
- 18 2003 created a viable market for purchasing digital
- 19 music and creating a digital economy for music
- 20 creators, whether they were songwriters or recording
- 21 artists.
- Q. Are downloads still an important part of
- 23 the iTunes business?
- A. Yes. For Apple, the download business is
- 25 still a large part of our business. It is

- 1 complemented now by subscription, but it is still a
- 2 substantial part of our business. And we have every
- 3 intention of continuing to maintain the iTunes Music
- 4 Store business.
- 5 JUDGE STRICKLER: Question for you, sir.
- 6 Good afternoon.
- 7 THE WITNESS: Good afternoon, Judge.
- JUDGE STRICKLER: Thank you. When Apple
- 9 introduced the iTunes store, in addition to
- 10 combatting piracy, did it also cause a change
- 11 whereby albums were unbundled and singles were
- 12 reintroduced to the market via the downloads?
- 13 THE WITNESS: That was something that
- 14 happened. And that was part of the business model
- 15 for Apple was that the single track purchase was
- 16 really important for us. And so, yes, we had single
- 17 tracks, and we offered full album downloads, but the
- 18 track was unbundled from the album.
- 19 JUDGE STRICKLER: Thank you.
- 20 BY MR. CENDALI:
- 21 O. So now let's focus on interactive
- 22 streaming. Do you believe that interactive
- 23 streaming had any impact on the music industry?
- 24 A. Yes. Interactive streaming has had a
- 25 very large impact on the music industry. And it is

- 1 a business that is growing, and it is a business
- 2 that we believe is the future of where music
- 3 engagement from consumers is going.
- 4 We have seen that business growing over
- 5 the last few years. And for Apple there is a reason
- 6 that we have decided to enter that business with
- 7 Apple Music. It is -- it is an important area of
- 8 the future growth.
- 9 Q. Now, from an historical perspective, have
- 10 royalties for vinyl, CDs, and downloads been on a
- 11 per unit basis?
- 12 A. They have. When we look at the structure
- 13 of royalties historically, it has always been at
- 14 purchase level. Something is purchased, there is a
- 15 royalty against that, and that royalty is paid one
- 16 time. And that has -- that business has been
- 17 maintained in the download era as well, not just in
- 18 the physical era.
- 19 JUDGE STRICKLER: I have a question,
- 20 counsel. And I don't know if you can answer this in
- 21 an open session as opposed to restricted. But will
- 22 you be having restricted sessions?
- 23 MS. CENDALI: We will at the end, Your
- 24 Honor.
- JUDGE STRICKLER: Let me ask the

- 1 question. If you can't answer it now, we will wait
- 2 for the restricted session.
- 3 THE WITNESS: Okay.
- JUDGE STRICKLER: But Apple has now
- 5 gotten into the streaming business over the last
- 6 couple of years. What changed in the -- in the
- 7 market because Apple was not always in the streaming
- 8 business, what changed in the market to lead Apple
- 9 to conclude that it was a good business objective to
- 10 enter the streaming market?
- 11 THE WITNESS: That's a good question. So
- 12 the streaming business has been around for a number
- 13 of years. And I would say consistent with many of
- 14 the things that Apple does in its businesses, we are
- 15 not always the first to enter a business, but we
- 16 always wait to see if something is going to take
- 17 hold, if there is growth and potential to build a
- 18 business.
- 19 And I would say that that's consistent
- 20 with how we looked at the streaming business. We
- 21 waited until we thought the right time took place to
- 22 actually enter something that we believe could build
- 23 into a sustainable business model.
- 24 JUDGE STRICKLER: And what was happening
- 25 in the market that led you to believe that it was,

- 1 that streaming was a sustainable business model?
- THE WITNESS: There were a number of
- 3 entrants in the market at that point who were
- 4 starting to see traction. We were starting to see
- 5 that with the industry. Clearly we, you know, speak
- 6 with all different facets of the industry. And what
- 7 we were able to see is the potential for actually
- 8 building a business, and we believe building a
- 9 business that we could do better, which is sort of
- 10 how we always think about building a great product.
- 11 And we thought we could build a great
- 12 product that people would be, as Steve Jobs used to
- 13 say, surprised and delighted by.
- 14 JUDGE STRICKLER: And what market metrics
- 15 were you looking at when you said it looked like you
- 16 could build a better mousetrap, so to speak? Was it
- 17 subscribers, listeners, profits? What were the
- 18 metrics you were looking at?
- I don't want to know the numbers, but
- 20 which metrics qualitatively were there?
- 21 THE WITNESS: I think you look at a
- 22 couple of things. The first thing is you look at
- 23 whether or not there is a large enough body of
- 24 consumers that are engaging with that methodology.
- 25 So, in other words, streaming is just the way in

- 1 which somebody, you know, is able to listen to a
- 2 song. It doesn't attach any kind of financial to
- 3 it. You are -- it is more the distribution method.
- So we saw that there was a large number
- 5 of people who were streaming music. And, second, we
- 6 started to see businesses that were building, that
- 7 were creating services where they were offering for
- 8 a price a premium value, meaning, you know, a
- 9 subscription price, they were starting to gain some
- 10 traction as well.
- JUDGE STRICKLER: What time frame are we
- 12 talking about here?
- 13 THE WITNESS: Well, we launched our
- 14 service in 2012. And so I don't know the exact date
- 15 that the powers that be, who decided that, you know,
- 16 that path forward, made that decision, but I can
- 17 tell you that I was working on it clearly before
- 18 June of 2012 when we launched the service.
- 19 JUDGE STRICKLER: Approximately how long
- 20 before that, approximately?
- THE WITNESS: Yeah, approximately year,
- 22 year and a half before is when I was starting to
- 23 actively become involved in those discussions to
- 24 create a music subscription service.
- JUDGE STRICKLER: So in the period

- 1 roughly 2010 to 2011?
- THE WITNESS: I would say 2011 from what
- 3 I can remember. Sometime in 2011 is when we started
- 4 actively to have conversations.
- 5 MS. CENDALI: Your Honor, just to jump in
- 6 a minute to refresh the witness' recollection, I
- 7 believe, didn't you start at Apple in 2012? Didn't
- 8 Apple Music --
- 9 THE WITNESS: I'm sorry, I am giving the
- 10 wrong years. Apologies. Thank you for that.
- 11 Yes. No, 2015 is when we launched. 2014
- 12 would be the time when we would have had those
- 13 conversations.
- 14 JUDGE STRICKLER: Okay.
- 15 THE WITNESS: I was still -- I was not
- 16 with Apple until 2012.
- 17 JUDGE STRICKLER: And you said you saw
- 18 other companies gaining traction and that's what
- 19 made you think you could get in and produce a better
- 20 product.
- 21 Which other companies were you referring
- 22 to?
- 23 THE WITNESS: Well, again, I'm not sure
- 24 who it is that they were looking at because I was
- 25 not involved in those discussions at the time, but

- 1 there are a number of companies who have been in
- 2 this business for, you know, a number of years now.
- And I can tell you who those companies
- 4 are who have been in this business. Whether those
- 5 were the impetus for Apple to get involved in the
- 6 business, I don't know.
- 7 JUDGE STRICKLER: That's fine. Thank you
- 8 very much.
- 9 THE WITNESS: Yeah.
- 10 BY MR. CENDALI:
- 11 Q. So focusing, again, following up on some
- 12 of Judge Strickler's questions about the changing
- 13 market or the market for interactive streaming, do
- 14 you have a view as to whether interactive streaming
- 15 became more popular from 2008 to when Apple decided
- 16 to enter the streaming business in 2015?
- 17 A. Yeah. I think if we were to go back
- 18 about ten years when you started seeing streaming
- 19 become a methodology for consuming music, there was
- 20 a great deal of uncertainty of whether or not you
- 21 could build a business model around this.
- 22 And so between 2008 and when Apple
- 23 entered the market, there was -- there was growth,
- 24 but I would say that in the last two years, we have
- 25 seen sort of that hockey stick growth, a significant

- 1 amount of growth in this sector. And we're
- 2 continuing to see that build.
- And so we believe that this is a future
- 4 business model that is very sustainable and that it
- 5 will continue to grow over time.
- 6 Q. Would you say -- do you have a view as to
- 7 whether the interactive streaming market has become
- 8 mature or is it still fringe or what's your view on
- 9 that?
- 10 A. I would say that it is a mature market
- 11 and not at its complete maturity but it is
- 12 definitely a market where we are seeing millions of
- 13 people who are paying for music subscription
- 14 services. And when I say there is still room for
- 15 maturity, there is a lot more room for growth.
- 16 JUDGE STRICKLER: When you say the market
- 17 is mature, do you relate maturity of the market to
- 18 whether or not the market is profitable?
- 19 THE WITNESS: I don't know the answer to
- 20 that question. I don't know if I would say that it
- 21 is profitable or not. I don't know.
- JUDGE STRICKLER: I appreciate that.
- 23 Your phrase you used was "mature market," do you
- 24 relate maturity -- do you think the market can be
- 25 mature, even if it is not -- even if the

- 1 participants are not realizing a profit?
- THE WITNESS: I think that there is a
- 3 possibility that you could have a mature market
- 4 where there is not necessarily profitability for all
- 5 but, again, I don't know if your question is would
- 6 profitability have to exist for all participants or
- 7 are there ones who could be in the marketplace who
- 8 are not profitable while others are?
- And so I'm not sure I understand the
- 10 specific nature of the question.
- JUDGE STRICKLER: That's a fair point.
- 12 Do you understand that a mature market has to have
- 13 at least one profitable entity in it for it to be
- 14 considered a mature market?
- 15 THE WITNESS: I don't know that as a
- 16 definition. I'll take your word for it, if you are
- 17 telling me that.
- 18 JUDGE STRICKLER: I am not representing
- 19 anything. I think you used the phrase "mature
- 20 market." I wanted to figure out what you meant by
- 21 it.
- In your understanding of what a mature
- 23 market is, does it require at least one of the
- 24 streaming services to be profitable?
- THE WITNESS: I don't know that. I think

- 1 that the definition I would give for a mature market
- 2 is that there is actually a business model that has
- 3 taken hold, that there are people participating in
- 4 that, within that business model. And that it is
- 5 growing.
- And so I believe it has reached a point
- 7 where there are enough people who are streaming now
- 8 and it is enough -- it has risen to a level of
- 9 importance in the music industry collectively,
- 10 meaning those who are participating on the
- 11 publishing side, on the master recording side, the
- 12 artistic side, whether they are artists or managers,
- 13 where streaming is as much a part of the
- 14 conversation now when we speak with those
- 15 participants, as the download business is. And so I
- 16 would say that that is a level of maturity where it
- 17 is an equal part of the conversation.
- JUDGE STRICKLER: Thank you.
- 19 BY MR. CENDALI:
- 20 Q. So let's talk some more about Apple
- 21 Music. Could you generally describe some of the
- 22 investments that Apple has made to create Apple
- 23 Music?
- 24 A. Yes. So there is obviously a lot that
- 25 goes into making a service that is software-based.

- 1 It is not just the licenses. That is a component
- 2 part.
- But there is a great deal more that goes
- 4 into the investment. There are obviously costs for
- 5 design, for software engineering, marketing, the
- 6 product development of how it integrates across all
- 7 of Apple's ecosystem and different device support,
- 8 so there is quite a bit that goes into it that sits
- 9 behind the scenes that is in many cases not very
- 10 sexy, unless, of course, you work at Apple and you
- 11 find it to be very sexy. But there is a lot more
- 12 that goes into it than just the acquisition of the
- 13 content through licensing means.
- Q. Now, is Apple Music a subscription
- 15 service?
- 16 A. Yes. Most people that know the name of
- 17 Apple Music refer to that as our music subscription
- 18 service. Of course, as I said before, we think of
- 19 it as an umbrella of all our music but, yes, it is a
- 20 music subscription service.
- Q. Can you describe the different tiers of
- 22 subscriptions that Apple offers?
- 23 A. Sure. We offer three different tiers.
- 24 There is an individual tier. That's a single person
- 25 who signs up for a plan, which is \$9.99 a month. We

- 1 have a family plan, which is for families of up to
- 2 six people, who can access their individual accounts
- 3 with six simultaneous streams, as \$14.99 per month
- 4 subscription. And we also offer a student program,
- 5 a student discount program that is a \$4.99 a month
- 6 plan for anyone who is attending a university or
- 7 college.
- 8 JUDGE STRICKLER: Why do you have
- 9 different price plans as you just described?
- 10 THE WITNESS: So we see different
- 11 opportunities in the market where the individual
- 12 plan is concerned, that's pretty much a standard
- 13 plan and we found that that's a price point that has
- 14 resonated well with single consumers who are signing
- 15 up for other services, and we believe that that's
- 16 the right price point.
- 17 The family plan we offer because we feel
- 18 like there is a great deal of opportunity with
- 19 parents to be able to sign up with their children
- 20 who are big users of music services and are heavy
- 21 streamers, when we look at consumption, but in many
- 22 cases those younger members of the family don't have
- 23 a credit card, don't have a payment method, are not
- 24 really in a position to afford a plan that is a
- 25 \$9.99 per month, and so we see that as a great

- 1 opportunity for families to participate together.
- 2 And then for students, it is really more
- 3 of a value proposition because someone who is going
- 4 to school is quite often not working and still loves
- 5 music. It is a great opportunity for us to
- 6 communicate and to be in business with people who
- 7 are heavy music, you know, users, and lovers and so
- 8 we have offered that program at a more affordable
- 9 value.
- 10 JUDGE STRICKLER: So the family discount
- 11 plan and the student discount plan exist with the
- 12 discounts because the ability to pay of some of the
- 13 people who will be users within those plans is lower
- 14 than those who might subscribe to the individual
- 15 plan?
- 16 THE WITNESS: Yeah. I think it allows us
- 17 to get more people into the ecosystem to be
- 18 participants of the subscription service, and we
- 19 believe creates, you know, a long-term value
- 20 proposition for those who are on the family plan to
- 21 hopefully one day convert into being individuals, as
- 22 they grow up.
- JUDGE STRICKLER: So it is not just that
- 24 the individuals in the family plan don't have credit
- 25 cards, as you say, and that ability to pay but you

- 1 are also looking at it sort of -- not to coin a
- 2 phrase -- a funnel by which you can introduce these
- 3 people into becoming full-time subscribers at \$9.99
- 4 a month?
- 5 THE WITNESS: No different than the
- 6 student subscription. A student will go to school
- 7 for four years, and for that four years, they are a
- 8 part of the student discount program. Once they
- 9 leave the university, we certainly hope to keep them
- 10 in that ecosystem, but that would change to a
- 11 individual program, an individual plan.
- JUDGE STRICKLER: Thank you.
- 13 BY MR. CENDALI:
- Q. Mr. Dorn, has Apple Music been
- 15 successful?
- 16 A. I think Apple Music has been very
- 17 successful. We launched again in June of 2015 with
- 18 zero subscribers. And the last number that Apple
- 19 released, which was in December of 2016, a few
- 20 months ago, we have now exceeded 20 million
- 21 subscribers paid in the service. And so I look at
- 22 that as a benchmark of success.
- Q. Now, Mr. Dorn, have you prepared some
- 24 demonstratives to use in connection with your live
- 25 testimony today?

- 1 A. I have.
- Q. I'd like to turn your attention to Apple
- 3 Demonstrative 1. Could you tell the Court what
- 4 we're looking at here?
- 5 A. So what you are looking at here is the
- 6 product user interface, UI as we refer to it. When
- 7 you open up the app, which is the music app on an
- 8 iOS device or an Android device, we are also
- 9 available on the Android platform, and this is the
- 10 phone version of the service. As I mentioned
- 11 earlier, we're on several platforms that Apple
- 12 supports.
- But what you see here is the navigation
- 14 points that are at the bottom of the application;
- 15 the library being where you store your music and
- 16 where you add music from the service. "For you" is
- 17 the personalized section. This is where we
- 18 recommend music for our subscribers. "Browse" is
- 19 where our editors are putting music together and
- 20 merchandising that for our consumers.
- 21 "Radio," we have a substantial radio
- 22 offering. Our Beats 1 service, which I mentioned
- 23 earlier, plus about 130 additional radio stations.
- 24 And then "search" is, I think, identifiable. It is
- 25 where you would look for music throughout the corpus

- 1 of the song content that we offer.
- Q. Could an Apple Music subscriber toggle
- 3 back and forth between these screens?
- 4 A. Yes.
- 5 Q. To what extent does Apple care about its
- 6 user interface?
- 7 A. I think that it is safe to say that Apple
- 8 cares very much about the user interface. This is
- 9 an area where we spend a great deal of time on
- 10 design and on simplicity. And that is something
- 11 that I think is across Apple's business.
- JUDGE STRICKLER: I see you mentioned the
- 13 Beats radio service is on the user interface, right?
- 14 THE WITNESS: Um-hum.
- 15 JUDGE STRICKLER: I don't know if you
- 16 said it already, so I apologize if I am asking you
- 17 to repeat yourself, but is there a subscription
- 18 price for Beats radio separate and apart from Apple
- 19 Music?
- THE WITNESS: No. Beats 1, which is the
- 21 name of that service, Beats 1 is a free aspect of
- 22 the service, similar to terrestrial radio where
- 23 there is, you know, the ability for anyone to
- 24 listen, you know, free in front of the pay wall.
- We use that as an opportunity and a

- 1 gateway to bring people behind the pay wall. And it
- 2 is a fantastic service that offers all kinds of
- 3 programming, but those programs are available only
- 4 on-demand behind the pay wall.
- 5 So you can listen in linear stream form,
- 6 but once something has played in its linear form,
- 7 let's say last Thursday, if you wanted to listen to
- 8 that special program again, you would have to be a
- 9 subscriber behind the pay wall.
- 10 JUDGE STRICKLER: You can't -- no play
- 11 back features, pure radio?
- 12 THE WITNESS: No, it functions exactly
- 13 like a terrestrial radio station or a streaming
- 14 Internet radio station that is live in realtime.
- 15 JUDGE BARNETT: Ad-supported?
- 16 THE WITNESS: It is not ad-supported.
- 17 Apple Music is a non-ad-supported service.
- 18 BY MR. CENDALI:
- 19 Q. Okay.
- JUDGE STRICKLER: I'm sorry. So there is
- 21 no ads and no subscription?
- THE WITNESS: For Beats 1?
- JUDGE STRICKLER: For Beats 1.
- 24 THE WITNESS: No, no ads, no
- 25 subscription. It is the free product offering that

- 1 we have for consumers. And it is available to
- 2 anyone who wants to listen to it within our user
- 3 interface. It is not available outside of the Apple
- 4 Music ecosystem. But it is free. It is ad free.
- 5 And it is available to anyone at any time.
- JUDGE STRICKLER: So you don't have to
- 7 subscribe to any of the other Apple Music
- 8 subscription plans to be able to access Beats 1?
- 9 THE WITNESS: That's correct.
- 10 JUDGE STRICKLER: So there is no ad
- 11 revenue, no subscription revenue, no revenue coming
- 12 in attributable to Beats 1?
- 13 THE WITNESS: That is correct. It is a
- 14 cost for us. Yeah.
- 15 JUDGE STRICKLER: Do you consider it a
- 16 loss leader?
- 17 THE WITNESS: No, we don't. And I will
- 18 tell you why. Because it is a content generation
- 19 machine for us and it creates fantastic programming.
- 20 So we don't look at it as a loss leader. We look at
- 21 it as an additional element of the service that
- 22 creates really great engagement.
- 23 And we think that Beats 1 for us to help
- 24 tell stories about what it is that we're doing is a
- 25 fantastic marketing tool, but we don't look at it as

- 1 a loss leader.
- JUDGE STRICKLER: You look at it as a
- 3 marketing tool?
- 4 THE WITNESS: It is a marketing tool. It
- 5 is a content generation tool that builds fantastic
- 6 programming that sits behind the pay wall, that
- 7 brings a great deal of value to subscribers.
- JUDGE STRICKLER: Can users of Beats 1,
- 9 do they have skips available to them?
- 10 THE WITNESS: Not on Beats 1. There is
- 11 no skips.
- JUDGE STRICKLER: How about thumbs
- 13 up/thumbs down type features, do they have that on
- 14 Beats 1?
- 15 THE WITNESS: It doesn't really work that
- 16 way. It is really more like, as I said, a
- 17 terrestrial radio station where you are listening to
- 18 the content programming. Once it goes behind the
- 19 pay wall, then you have the ability to do the things
- 20 you are saying, like adding things to libraries,
- 21 liking things, adding specific songs to your
- 22 collection, but in front of the pay wall it is a
- 23 free service and it is more of a marketing and
- 24 content generation tool.
- 25 JUDGE STRICKLER: And behind the pay

- 1 wall, it is still a Beats product?
- THE WITNESS: Behind the pay wall it is
- 3 still referred to as Beats 1. So you are listening
- 4 like any -- anyone who listens to Beats 1 is
- 5 listening in the same environment effectively. It
- 6 is an in-front-of-the-pay-wall service.
- 7 It is the on-demand content, the
- 8 programming that is, you know, sort of the
- 9 compartmentalized programming that exists on Beats
- 10 1. That is made available behind the pay wall
- 11 on-demand and on a show basis.
- JUDGE STRICKLER: Do listeners see their
- 13 own stations on Beats 1 --
- 14 THE WITNESS: No.
- 15 JUDGE STRICKLER: -- or they just can
- 16 access different programmed radio stations?
- 17 THE WITNESS: That's correct. So I will
- 18 give you an example just to make this a little bit
- 19 clearer. An artist who we work with who has his own
- 20 program is Drake, very big hip-hop artist. So Drake
- 21 does a show OVO Sound on Saturdays, it's a two-hour
- 22 program, usually a two-hour program.
- 23 And when you listen to that in linear
- 24 form on Saturday, you have to listen as everyone
- 25 would at the same time.

- 1 After the fact, it is loaded behind the
- 2 pay wall and you can listen to just that program
- 3 on-demand as many times as you want. And it has the
- 4 functionality that you would expect where you have
- 5 the ability to scrub through and, you know, to be
- 6 able to add certain songs to your library, but not
- 7 when it is sitting in linear form in front of the
- 8 pay wall.
- 9 JUDGE STRICKLER: One last question on
- 10 that. When you get behind the pay wall, what is the
- 11 price for Beats 1?
- THE WITNESS: It is, for any of the shows
- 13 that are available on-demand, it is all part of the
- 14 subscription service.
- 15 JUDGE STRICKLER: So the prices you just
- 16 mentioned?
- 17 THE WITNESS: Yes. There is no
- 18 differentiation between once you are behind the pay
- 19 wall, access to any content. It is all available to
- 20 the subscriber base.
- JUDGE STRICKLER: Thank you.
- 22 JUDGE BARNETT: Mr. Dorn, I think you
- 23 said that one of the reasons Apple doesn't consider
- 24 Beats 1 a loss leader is because of content
- 25 generation. Is that your terminology?

- 1 THE WITNESS: Yeah, content creation,
- 2 content generation, yes.
- JUDGE BARNETT: Does that mean you are
- 4 gathering data from the usage by listeners to Beats
- 5 1? I mean, what are you generating there?
- THE WITNESS: Oh, let me be clear about
- 7 that. So what I'm talking about is programming
- 8 content. There are four dozen or so individual
- 9 programs, so if you think about when you listen to a
- 10 radio station, there is a program hosted by
- 11 somebody, and it is a two-hour program of content.
- 12 That's what I'm talking about.
- 13 And they run the range of all different
- 14 kinds of programs and genres. And they are
- 15 specialty programs that we're creating.
- 16 JUDGE BARNETT: And how is that of
- 17 benefit to Apple?
- 18 THE WITNESS: Well, it is a benefit to
- 19 Apple because it is unique content that is exclusive
- 20 to us, and they are great listening experiences. We
- 21 believe that they are great experiences for
- 22 consumers because we're turning them on to music
- 23 that they otherwise would not know.
- We're also hopefully reintroducing them
- 25 to great music that they love, and it is a

- 1 satisfying listening experience. So we find that
- 2 people access it because they are being entertained.
- 3 BY MR. CENDALI:
- Q. And, Mr. Dorn, is the content that is
- 5 created in Beats 1, if someone wanted to hear it
- 6 again, they would have to subscribe and go behind
- 7 the pay wall?
- 8 A. That's correct, yeah.
- JUDGE BARNETT: Thank you.
- 10 BY MR. CENDALI:
- 11 Q. So let's talk a little bit more about
- 12 Apple Music and what it offers. Let me call your
- 13 attention to Apple Demonstrative 2.
- 14 Does this demonstrative summarize some of
- 15 Apple Music's features?
- 16 A. Yes, it does.
- Q. Well, turning to the first bullet, could
- 18 you explain what features Apple Music has relating
- 19 to its unified music platform?
- 20 A. So when we talk about complete access, it
- 21 is access to all of the music you purchased. It is
- 22 also access to the music that is available in the
- 23 service. And I would add the original content that
- 24 we were just talking about.
- So it is complete access to all content

- 1 that is in the service, regardless of whether you
- 2 paid for it or it is part of the streaming part of
- 3 the platform.
- Q. And there is a bullet that says lean in
- 5 and lean-back listening. What does that mean?
- A. Lean-in and lean-back would be simply
- 7 defined as someone actively looking for specific
- 8 music or is seeking out specific containers like a
- 9 playlist or an album or a radio station. And they
- 10 are actually leaning in and they are in many cases
- 11 organizing music themselves.
- 12 Lean-back is more like radio. It is
- 13 where we're doing the programming for you. And what
- 14 we find is that there are a large number of people
- 15 who like to be very interactive, and there are also
- 16 a large number of people who just like to be, to
- 17 have programming created for them. They lean-back
- 18 and they listen to it.
- 19 Q. And what's the bullet off-line listening
- 20 referring to?
- 21 A. So off-line listening is important
- 22 because there are a lot of times when someone does
- 23 not have either a WiFi or an over-the-air mobile
- 24 connection, like a 4G connection. And so we offer
- 25 the ability with the subscription service to be able

- 1 to download the music temporarily onto the device
- 2 from the subscription platform to be able to listen
- 3 in times when you are on a plane, on a train, in a
- 4 tunnel, at the gym, maybe somewhere where you don't
- 5 have access to stream again through a WiFi or mobile
- 6 connection.
- 7 Q. Now, turning to the next main category on
- 8 the demonstrative, music curation and discovery
- 9 tools, can you briefly explain what those are about?
- 10 A. Sure. So this is the big differentiator,
- 11 we believe, for Apple. We have a sizeable editorial
- 12 team, and they are actually building really great
- 13 playlists where humans are putting that music
- 14 together.
- And we believe that is a very important
- 16 factor is the human curation. And it leads into our
- 17 personalized recommendations because those humans
- 18 who are actually listening to the music and
- 19 organizing that music are also suggesting music for
- 20 listeners based on their taste profile, which is a
- 21 rather complicated process to explain because there
- 22 is a lot of software that goes into understanding
- 23 how to create a taste profile and learn from someone
- 24 as they listen to the music in the product.
- But I think we do a very good job of

- 1 that.
- 2 O. Does Apple have any concept of daily
- 3 recommendations for users?
- A. Yes. So the "for you" section of the
- 5 product, which is the most accessed part of the
- 6 product, is the personalized recommendation section.
- 7 And, again, it is the individual listener's taste
- 8 profile. We're building those recommendations and
- 9 every day we're feeding you new playlists and albums
- 10 and songs.
- 11 And we believe that that fosters
- 12 engagement, which we have seen, and that it delights
- 13 people. It is value to the service.
- 14 JUDGE STRICKLER: This may be jumping
- 15 ahead just a bit, but it relates to the curation
- 16 point that you have just been testifying to. Apple
- 17 is proposing a per-play rate in this proceeding,
- 18 correct?
- 19 THE WITNESS: That is correct.
- JUDGE STRICKLER: And is one of the
- 21 reasons why you are proposing a per-play rate
- 22 because the value of curation that Apple creates,
- 23 Apple understands that to be a value that it wants
- 24 to appropriate for itself rather than share with the
- 25 Copyright Owners because curation is not created by

- 1 the recording -- by the songwriters, but by Apple?
- THE WITNESS: You know, I will be honest
- 3 with you, I have never thought about it that way,
- 4 that the curation factor had -- I am not sure that
- 5 that's why we're seeking that.
- The way we look at curation is that it is
- 7 what Apple would do to create a better experience,
- 8 but I'm not sure that that's tied to the financial
- 9 aspect of the way in which we would compensate
- 10 rights creators. That's -- that has never occurred
- 11 to me.
- 12 JUDGE STRICKLER: Maybe this will come up
- 13 later on, so we will go off to it later.
- 14 THE WITNESS: Okay.
- 15 BY MR. CENDALI:
- Q. When you talk about engagement, you
- 17 mentioned engagement, what are you referring to when
- 18 you say engagement?
- 19 A. So when we say engagement, just to be
- 20 clear, we're talking about the actual use of the
- 21 service. Our goal is not to have subscribers so
- 22 that all they are doing is just paying a monthly fee
- 23 and then they don't do anything, because all that
- 24 does is eventually somebody wakes up and says:
- 25 Well, why am I paying for this service? Right.

- 1 What we want is we want people who are
- 2 using the music service because they are enjoying
- 3 it. And engagement for us is the actual activity of
- 4 listening to music. And it is always our goal to
- 5 have people listening to as much music as they can,
- 6 because it means they are enjoying the service.
- 7 O. Do you have a view as to whether the
- 8 Apple Music features we have been discussing
- 9 encourage people to listen to more music?
- 10 A. We believe that they do. And it is why
- 11 we invest so much time, energy, you know, and
- 12 resources behind the programming of music, the
- 13 individual curation of music, the editorial human
- 14 factor, the way in which we think about
- 15 merchandising and designing the product, all of
- 16 those things, I think, go hand in hand with creating
- 17 a more vibrant product and a more vibrant ecosystem
- 18 of engagement with consumers.
- 19 Q. Do you have a view as to whether
- 20 encouraging people to listen to more music is good
- 21 for songwriters and publishers?
- 22 A. Well, I think any time we can get more
- 23 people to listen to more music, that is great for
- 24 content creators; songwriters or recording artists.
- Q. Now, let's deal with, I don't think we

- 1 have discussed the last main bullet, community for
- 2 music engagement -- enjoyment, excuse me --
- 3 community for music enjoyment.
- 4 And can you tell the Court a little bit
- 5 more about that?
- A. Sure. So these are simple features, you
- 7 know, to understand sharing is the ability to take a
- 8 piece of music that you love and to share that with
- 9 your friends or your family. It is a fairly common
- 10 practice. And it is a social feature.
- 11 Connect is an aspect that we created that
- 12 many in the industry had asked us for years about
- 13 having that ability for their artists. And it is
- 14 the ability for an artist to communicate with their
- 15 fan base.
- 16 So you would follow an artist and that
- 17 artist would make postings. And if you were
- 18 following that artist, you would be able to see what
- 19 they are posting.
- Q. Mr. Dorn, do you have a view as to
- 21 whether the features we have been discussing help
- 22 distinguish Apple Music from other services?
- 23 A. We believe that they do. Yes. The
- 24 answer, simple answer is yes.
- Q. Do you believe that Apple Music has made

- 1 a contribution to the music industry?
- 2 A. Yes.
- 3 Q. Tell me why.
- A. Well, if we start with the iTunes Music
- 5 Store, we obviously built a very successful and I
- 6 would use, again, the word engaging product with the
- 7 sale of music downloads.
- 8 With the addition of streaming with Apple
- 9 Music, we are seeing growth in our music business.
- 10 We're seeing the economy growing for music overall.
- 11 And I think that that is a great thing
- 12 for content creators. And I think it instills
- 13 confidence in the creation community to actually do
- 14 what it is that they do, write songs and record
- 15 music.
- 16 O. Do you have a view as to whether services
- 17 like Apple Music help make music more accessible?
- 18 A. I believe we make music more accessible
- 19 by having an additional product offer in the
- 20 streaming service with Apple Music. I think we're
- 21 reaching more consumers than we would if we just
- 22 were to maintain the iTunes Music Store solely, so
- 23 we are finding new consumers and new music fans.
- Q. Now, are you familiar with Apple's
- 25 proposal for an interactive streaming rate in this

- 1 proceeding?
- 2 A. I am.
- Q. Let's turn to Apple Demonstrative 3. Is
- 4 this a summary of the royalty that Apple is
- 5 proposing for interactive streaming in this
- 6 proceeding?
- 7 A. It is.
- 8 Q. Now, could you briefly describe that
- 9 proposal for the record, just what its terms are?
- 10 A. Sure. It is a single per-play rate,
- 11 0.00091 dollars per play for non-fraudulent plays
- 12 that are equal to or greater than 30 seconds. And
- 13 it is an all-in rate.
- Q. Let's talk about each of these features.
- 15 Let's start with the per-play rate structure.
- 16 Why -- is Apple proposing a per-play rate
- 17 structure?
- 18 A. Well, I would say that the best way to
- 19 describe this is that we're looking for a simple,
- 20 fair, and very transparent way of paying the content
- 21 owners and the songwriters. We believe that a
- 22 per-play rate is the simplest way of doing that.
- 23 And we believe that there is a lot of
- 24 confusion right now in the way in which deals are
- 25 struck and the multitude of ways in which payment

- 1 takes place in the streaming part of the economy.
- We have always felt like the simplest
- 3 solution that is fair and transparent is the best
- 4 solution.
- 5 O. Well, do you have a view as to whether
- 6 Apple's per-play proposal will incentivize services
- 7 or copyright creators?
- 8 A. So we think that it helps to incentivize
- 9 both for two different reasons. So where the
- 10 creative community is concerned, again, we're
- 11 talking about the songwriter community in here, but
- 12 there is also the recording artist community, any
- 13 time you have something that is clearly understood,
- 14 that is simple and easy and is fair, it fosters a
- 15 level of trust and certainly a level of
- 16 understanding of how they are being paid.
- 17 And as a royalty recipient myself from my
- 18 father's recordings, when I look at royalty
- 19 statements that are confusing, it is very hard for
- 20 me to understand how I am being paid. And right now
- 21 there are different ways in which music is valued.
- 22 So when you look at the fact that a song
- 23 stream can be, for the exact same song that streams
- 24 one place and streams another has different values,
- 25 I think for the creative community, that is a hard

- 1 thing to understand, you know, so that's why we're
- 2 proposing the single per-play rate.
- JUDGE STRICKLER: I'm sorry, do you think
- 4 simple equates with fair in this context?
- 5 THE WITNESS: In this particular context,
- 6 I do, because I think what we have done is we have
- 7 structured something that -- and I know we wanted to
- 8 get into a little more detail of how we did it, but
- 9 I believe that it also allows the service providers
- 10 to be able to invest in their services and innovate,
- 11 but also it creates something that is a very fair
- 12 form of compensation in our minds for the value of
- 13 the music.
- 14 BY MR. CENDALI:
- 15 Q. Now, Mr. Dorn, I think you mentioned that
- 16 the rates may vary right now. Could you explain
- 17 what you meant when you were saying that under the
- 18 -- can you address the current structure and any
- 19 variation in rates, if any, under that structure?
- 20 A. Sure. The current structure is a
- 21 percentage of revenue. And that's been around for a
- 22 little while. And, you know, when those deals were
- 23 entered into, that was, you know, a method that was
- 24 acceptable to all, but we believe that the time is
- 25 ripe now to change that because a service like Apple

- 1 is paying one rate, while other services that
- 2 operate different models are paying -- while they
- 3 may be paying a percentage, the value of the stream
- 4 is not the same.
- 5 And so that is the problem in our minds
- 6 is that a song stream, if it is listened to and
- 7 enjoyed, has a consistent level of value. So that's
- 8 why we believe there is a single rate per play that
- 9 should be applied.
- 10 Q. Is part of --
- JUDGE STRICKLER: Is Apple currently
- 12 operating under direct licenses with music
- 13 publishers?
- 14 THE WITNESS: We are.
- JUDGE STRICKLER: And are you operating
- 16 under a per-play rate?
- 17 THE WITNESS: No, we are operating under
- 18 a percentage rate at this point.
- 19 JUDGE STRICKLER: A percentage of
- 20 revenue?
- 21 THE WITNESS: Yes.
- JUDGE STRICKLER: Go ahead, I'm sorry.
- 23 BY MR. CENDALI:
- Q. And do you believe that the existing
- 25 rate, statutory rate has helped cause Apple in its

- 1 current deals to use the percentage-of-revenue
- 2 model?
- A. Yeah. Apple is using the percentage rate
- 4 right now. That is the method by which we are
- 5 paying.
- Q. And is that because that's what the
- 7 current statutory rate is that has influenced that
- 8 structure?
- 9 A. I'm sorry, can you restate that?
- 10 O. Sure. Has the current rate structure
- 11 percentage of revenue created -- some witnesses have
- 12 said, sort of a shadow on direct deals that have led
- 13 to other people adopting that.
- 14 A. Yes.
- 15 Q. Now, are you aware of any problems or
- 16 complaints with the current variability of streaming
- 17 rates?
- 18 A. Well, you know, I go back to what I said
- 19 is that when you have variability in the rates and
- 20 the value of the music, you foster in the minds of a
- 21 number of artists and songwriters a lack of trust
- 22 because of the transparency on how they are being
- 23 paid.
- 24 And you know I can just give you two
- 25 examples of artists, one would be Prince, who did

- 1 not make his music available for a number of years
- 2 in streaming services, and, you know, and the other
- 3 would be Adele, who did not make her album available
- 4 about a year and a half ago, when that came out, was
- 5 not available for streaming services either.
- 6 So those are fairly high-profile artists.
- 7 And, you know, Prince was very vocal about this. I
- 8 don't think that helps the community of songwriters
- 9 when somebody that prominent is questioning the
- 10 payment method.
- 11 Q. Now, how if at all have the changes in
- 12 the interactive streaming market since 2008 that you
- 13 were talking about earlier influenced the rate
- 14 structure that Apple is proposing?
- 15 A. Well, you know, Apple, again, looks at
- 16 this and says that much in the way that the download
- 17 business flourished because it was a very simple and
- 18 transparent business, we believe the time is now
- 19 that we need to create the same level of simplicity
- 20 and transparency.
- 21 And so this is why we have adopted this
- 22 00091 cent 91 dollars per play.
- JUDGE STRICKLER: When you make this
- 24 analogy to Apple's download business and you say
- 25 Apple's download business was simple and

- 1 transparent, what aspects are you referring to?
- THE WITNESS: Well, there was a
- 3 mechanical rate that was established, much in the
- 4 same way that the rate was established but against
- 5 the principles, the four principles that I
- 6 understand. It was a very well-understood
- 7 mechanical. It was easy for an artist to know when
- 8 a download was sold, how much they would receive.
- 9 And it was something that was adopted by
- 10 the industry. It is an industry or at least it was
- 11 adopted and the industry agreed with that rate. And
- 12 nobody actually fights that rate, you know, or at
- 13 least from the general consensus among the industry,
- 14 that is a standard.
- And it is a statutory rate. And so when
- 16 we think about this per-play rate, what we're
- 17 thinking about is how can we help to move to a place
- 18 where, in the streaming world, we have a similar
- 19 sort of correlative that helps create that same
- 20 level of understanding, how an artist is going to be
- 21 paid.
- 22 BY MR. CENDALI:
- Q. Do you have a view as to whether a
- 24 per-play rate structure would incentivize
- 25 songwriters?

- 1 A. Well, I believe that any time you can
- 2 give somebody something that is easy to understand
- 3 and they believe is fair, it is an incentive. When
- 4 a songwriter or a recording artist is unsure about
- 5 whether they are going to be able to make money from
- 6 the work that they have spent so much time and
- 7 energy creating, it is a disincentive for others to
- 8 enter that particular endeavor and marketplace.
- JUDGE STRICKLER: You are talking about
- 10 two things, a structure of the rate and the rate
- 11 itself. You are talking about how you believe it is
- 12 important for the artist to believe that it is a
- 13 fair -- that both are fair.
- 14 Copyright Owners are also seeking a
- 15 per-play rate, so it is the same structure. So to
- 16 the extent you think it is fair and they think it is
- 17 fair, we have got, shall we say, a meeting of the
- 18 mind there but they want a much higher rate. So
- 19 they are telling you that they think a fair rate is
- 20 much higher.
- 21 THE WITNESS: That's right.
- JUDGE STRICKLER: If fairness to the
- 23 artist is what we're trying to get, why don't you
- 24 just agree with their rate?
- THE WITNESS: So that's a great question.

- 1 The way that we think about it is that currently the
- 2 way that the structure works is that the value of a
- 3 song potentially is far lower than the rate that
- 4 we're proposing here.
- 5 The Copyright Owners are proposing a rate
- 6 that is higher than this rate. And what we believe
- 7 is fair is something that is sort of in the middle.
- 8 We believe a rate that applies -- that is
- 9 very similar to the mechanical that is used in
- 10 downloads and that is that it was one of the things
- 11 that we used in order to arrive at this, we believe
- 12 that that is a fair rate because it is a rate that
- 13 balances out the interests of the current situation
- 14 with what the Copyright Owners are asking for.
- JUDGE STRICKLER: So an honest broker?
- 16 THE WITNESS: Well, you can say that, I
- 17 guess. I feel like it is not -- we're not speaking
- 18 just on behalf of Apple. We believe this is a great
- 19 -- this is a great rate for the industry, of those
- 20 who are participating in music streaming.
- 21 BY MR. CENDALI:
- Q. Why do you think it is a good proposal
- 23 for the service side of the industry, focusing still
- 24 on the -- on the per-play rate structure itself?
- 25 A. Sure. So if we look at the problem that

- 1 you have on the lower end of the spectrum, the
- 2 Copyright Owners clearly believe that they are not
- 3 being paid enough for, you know, for that percentage
- 4 base, the plays at the percentage base.
- 5 And then when you look at the higher end
- 6 of the structure, that's a problem for the Services
- 7 because the Services need to be able to generate
- 8 some kind of a profit to be able to reinvest in
- 9 their business or they at least need to be able to
- 10 maintain their business and to innovate on top of
- 11 that.
- 12 And a company like Apple needs to be able
- 13 to run a business in order to be able to continue to
- 14 do this great innovation around design and user
- 15 interface and marketing and promotion and curation.
- 16 These things come at a cost. And so we are looking
- 17 for what we believe is a fair rate that allows both
- 18 the service providers to be able to participate, as
- 19 well as the artistic community be able to
- 20 participate.
- 21 O. Do you believe that -- well, following up
- 22 on Judge Strickler's, one of his questions about
- 23 fairness, do you think that -- do you have a view as
- 24 to, leaving aside what the rate is, it is fair to
- 25 have a simple, transparent rate that is the same for

- 1 every stream?
- 2 A. Well, yes, we do. And I think we have
- 3 already seen this work historically for decades. In
- 4 either the purchase of a single that was vinyl or
- 5 the purchase of a download, it is simple, and it is
- 6 a single per-play rate that we are proposing that we
- 7 believe correlates to a methodology that has been
- 8 adopted and accepted for decades.
- 9 Q. All right. So now let's focus on the
- 10 particular rate, the .00091 per-play rate that Apple
- 11 is proposing. And let's look at Apple Demonstrative
- 12 4.
- 13 Could you tell me what this is?
- 14 A. Right. So when we look on the left-hand
- 15 side of the screen, we're seeing the current
- 16 mechanical rate for a download, which is 9.1 cents
- 17 per download. On the far right side we're seeing
- 18 the rate that we have just been talking about that
- 19 we're proposing, .00091 dollars per stream. And in
- 20 the middle is the calculation that gets us there.
- 21 And in that calculation we value one
- 22 download to 100 streams.
- Q. Now, let's talk about the, I guess, the
- 24 first box on the left. Can you tell me about the
- 25 first box on the left and why Apple is referring to

- 1 the download rate as part of its conversion?
- 2 A. Sure. So this is, again, a mechanical
- 3 rate that has been set. It has been, you know
- 4 agreed upon by the industry. It is something that
- 5 we have been working on for a number of years and
- 6 very importantly it is something that has been
- 7 approved for the next five years.
- 8 So clearly the industry at large has no
- 9 problem with this particular rate or at least there
- 10 is a collective agreement that it is good enough for
- 11 the next five years, so we figure it is a good
- 12 starting point because it is already valued the --
- 13 there is already a value at the song level when
- 14 something is purchased for what the content creator
- 15 is compensated.
- 16 Q. Let's talk about the next box then, the
- 17 conversion ratio of downloads to streams of
- 18 1-to-100. Could you explain to the Court Apple's
- 19 basis for the conversion rate?
- 20 A. Sure. So Apple looked at a couple of
- 21 different factors. But primarily what we were
- 22 looking at is the charts. So the way in which
- 23 charts work is that they value a certain number of
- 24 streams to a download in order for that song to
- 25 enter the chart, to be counted towards the chart for

- 1 when a song enters those charts.
- 2 And there are different charts all around
- 3 the world, different charting companies around the
- 4 world, but we use that metric as a starting point,
- 5 combining that with what we already see here with
- 6 the mechanical and the download side.
- 7 Q. Well, let's turn to Apple Demonstrative
- 8 5. What is this?
- 9 A. So this is the Billboard chart.
- 10 Billboard is the recognized charting body, of
- 11 course, in the United States. And Billboard values
- 12 one download equals 150 streams. That is an
- 13 industry accepted benchmark. Billboard has been
- 14 doing this for a while with the streaming business.
- 15 And it is an accepted number of streams for
- 16 charting.
- 17 Q. Could you describe or explain to the
- 18 Court Billboard's role in the industry and whether
- 19 you have a view as to whether people respect
- 20 Billboard?
- 21 A. Yes. So I think it is safe to say that
- 22 the charts, Billboard or others, but since we're
- 23 sitting here in the United States, the charts are of
- 24 extreme importance to the music industry, whether
- 25 that is a songwriter or a recording artist.

- 1 The chart, the Billboard chart is the
- 2 bible. And getting on that Billboard chart and
- 3 rising to the top of the chart is the benchmark of
- 4 success.
- 5 Q. And do other people in the industry -- do
- 6 people in the industry rely on Billboard and cite to
- 7 it?
- 8 A. They do.
- 9 O. Let's look at what is in the binder as
- 10 Apple Trial Exhibits 1593 through 1596, which have
- 11 already been admitted in evidence. Could you tell
- 12 me generally what those are?
- A. Yes. So 1593 is a press release from
- 14 Sony/ATV, one of the major publishers that is
- 15 specifically addressing Drake's album, Views, which
- 16 came out last year.
- 17 And others are press releases from
- 18 Sony/ATV, from Warner/Chappell and from Universal
- 19 Music Publishing Group. And they are similar
- 20 documents there, they are press releases.
- 21 O. And do all of these documents show use by
- 22 publishers of citing to Billboard?
- 23 A. Yes. I think it is obvious from looking
- 24 at them that the Billboard chart is not only called
- 25 out but its importance is called out.

- 1 Q. Let's look at Apple Demonstrative 6,
- 2 which is a portion of Exhibit 1593. Can you point
- 3 out, describe anything around that that you think is
- 4 relevant to the extent that the Billboard is relied
- 5 on by publishers?
- A. Sure. The two things that we're
- 7 highlighting here is one is it is talking about a
- 8 the top the total calculation on the Billboard chart
- 9 for how many equivalent albums, and equivalent
- 10 albums are the number of true albums that are sold
- 11 along with the track, the individual tracks that are
- 12 sold from download, and the number of songs that are
- 13 streamed.
- 14 They are all added in combination up to
- 15 an equivalent album total. And, of course, what we
- 16 see at the bottom is the fact that it went Number 1
- 17 on the Billboard chart. That is the pinnacle. And
- 18 that's what everybody is looking for.
- 19 O. And this is a reference to the conversion
- 20 rate?
- 21 A. That's right.
- Q. Now, in addition to Billboard, did Apple
- 23 look at other -- I believe you mentioned that Apple
- 24 looked at other industry sources. Let's look at
- 25 Apple Demonstrative 7.

- 1 What is this?
- 2 A. So this is the equivalent in the United
- 3 Kingdom of the Billboard chart. This is the OCC or
- 4 the Official Charts Company, where they are equating
- 5 one download to 100 streams. That has since
- 6 changed. In December, end of December of 2016, the
- 7 OCC is now valuing one download as 150 streams.
- 8 They are in alignment now with the Billboard chart.
- 9 JUDGE STRICKLER: Do you know why the
- 10 change was made?
- 11 THE WITNESS: Well, I can only comment on
- 12 what I have seen coming out of the news media from
- 13 the U.K. I was not involved in those discussions.
- 14 They said because of the volume of streams that have
- 15 gone up, they felt that it was time for a
- 16 reevaluation, but I was not part of that, so I don't
- 17 know their reasoning.
- 18 JUDGE STRICKLER: Do you know the
- 19 reasoning as to how they ever came to the 1-to-100
- 20 in the first place?
- THE WITNESS: I do not.
- JUDGE STRICKLER: And how about
- 23 Billboard's 1-to-150, do you know the reasoning
- 24 behind that that Billboard utilized?
- 25 THE WITNESS: I am not part of those

- 1 discussions. Billboard establishes those rates and
- 2 they inform the industry, but I am not part of those
- 3 discussions.
- JUDGE STRICKLER: Thank you.
- 5 BY MR. CENDALI:
- Q. Mr. Dorn, just building on that, are you
- 7 aware from being involved in the industry that
- 8 Billboard and the official charts spent a lot of
- 9 time coming up with these conversion rates?
- 10 A. That I am aware of. And I do speak with
- 11 Billboard on a regular basis, but I am not part of
- 12 their calculation.
- 13 Q. So now do people in the industry, such as
- 14 publishers, rely on and cite to the Official Charts
- 15 Company rates?
- 16 A. Yes, they do.
- 17 Q. So let's take a look at Apple's
- 18 Demonstrative 8. Is that part of a blowup of
- 19 Exhibit 1594?
- 20 A. I think this is similar to the other
- 21 document. It is showing the importance of the
- 22 charts and the placement on the charts in the United
- 23 Kingdom.
- JUDGE STRICKLER: I was just looking at
- 25 this quickly, and I haven't read it through, but I

- 1 notice on the first one that we looked at,
- 2 Exhibit 1593, I guess it was, it referred to album
- 3 equivalents.
- 4 Does this one refer to album equivalents
- 5 as well, Exhibit 1594?
- THE WITNESS: I'd have to reread the
- 7 entire document to see if they do. The full quote
- 8 here does not.
- JUDGE STRICKLER: Maybe counsel can call
- 10 your attention to it or to its absence, as the case
- 11 may be.
- 12 BY MR. CENDALI:
- Q. Maybe there is another way of putting it.
- 14 Can you explain what an album equivalent is as you
- 15 go from streams to albums to -- well, can you
- 16 explain what an album equivalent is?
- 17 A. Sure. So when we look at track album
- 18 equivalents, that's the number of single tracks that
- 19 are sold. There are ten songs sold individually
- 20 equals one album. Where streaming is concerned, it
- 21 is 1500 streams equals an album.
- 22 So if you had an album stream total
- 23 number of aggregate streams, you would divide by
- 24 1500 to get the equivalent number of albums that had
- 25 streamed. This particular document is talking more

- 1 about the singles. And I believe, if I am not
- 2 mistaken, because I'd have to take a look back on
- 3 the date, this is probably predating Ed Sheeran's
- 4 release and it was talking more about the single
- 5 releases, but I don't know for sure. I'd have to
- 6 read the entire document again.
- 7 JUDGE STRICKLER: Okay.
- 8 BY MR. CENDALI:
- 9 Q. So now what ratio is Apple proposing to
- 10 use to convert the download rate to streams?
- 11 A. So we're looking at one download equals
- 12 100 streams, which is not the same thing as what we
- 13 just looked at here.
- Q. So why did Apple choose or propose a rate
- 15 of 1-to-100 as opposed to 1-to-150 or something
- 16 else?
- 17 A. So there are two reasons. The first one
- 18 is because when we look at the mechanical rate of
- 19 9.1 cents, what we are trying to do is create
- 20 something that we believe is equivalent in nature,
- 21 that is easily understood by the community and is,
- 22 again, fair.
- So when we look at .00091, that is one
- 24 download equals 100 streams. The other thing that
- 25 we considered was the fact that we're trying to be

- 1 more favorable to the songwriting community. 150
- 2 streams, it takes a little bit longer to get to to
- 3 equate a download than it does 100 streams.
- 4 So we think that, again, back to the
- 5 statement I made before, when we're trying to find a
- 6 middle ground, we think that that is a fairer
- 7 proposal to the content creation community.
- 8 JUDGE STRICKLER: Correct me if I am
- 9 wrong, but you didn't get the 100-to-1 equivalents
- 10 out of a whole cloth, you got it out of the official
- 11 charts from the U.K.? That was your testimony,
- 12 correct?
- 13 THE WITNESS: Directly from the OCC? I
- 14 don't know that that's the only thing but, yes,
- 15 that's a factor that we looked at, yeah.
- 16 JUDGE STRICKLER: Okay. In your
- 17 testimony is there any other evidence that you rely
- 18 -- that you point to to get to the 100-to-1, other
- 19 than trying to be favorable to the Copyright Owners?
- THE WITNESS: I would have to reread my
- 21 testimony to know whether I stated anything beyond
- 22 that. I don't actually remember. I would have to
- 23 reread the testimony.
- 24 JUDGE STRICKLER: Okay. So if there is
- 25 nothing else in there, we will go back and check, if

- 1 there is nothing else that got you to the 100-to-1,
- 2 then it would only have been the Official Charts
- 3 Company, 100-to-1 ratio; is that fair, if you have
- 4 nothing else in your written direct testimony?
- 5 THE WITNESS: If I have nothing else in
- 6 my written testimony, then I think that's a fair
- 7 statement.
- JUDGE STRICKLER: Okay. So you got it
- 9 because it was in the industry. And now you told us
- 10 that the industry has changed to 150-to-1. When the
- 11 facts change, don't you change your mind?
- 12 THE WITNESS: Not always.
- 13 JUDGE STRICKLER: And not in this case?
- 14 THE WITNESS: Well, again, I think that
- 15 what we're showing is we're providing a fairer rate
- 16 to the songwriting community in this particular case
- 17 here. We're establishing a rate that we believe,
- 18 again, is better than the current rate, not quite as
- 19 high as the rate that is being proposed.
- JUDGE STRICKLER: I am a little confused.
- 21 Maybe you can help me out. And I understand why you
- 22 perceive the rate structure to be fairer because it
- 23 is simple, but I don't understand how any particular
- 24 number or maybe you can tell me, why do you think a
- 25 higher rate at the 100-to-1 ratio for the Copyright

- 1 Owners is fairer than the 150? Why is more fairer?
- THE WITNESS: Well, again, I am going to
- 3 go back to that just because something exists today,
- 4 doesn't necessarily mean that that is the way it
- 5 should be going forward. So we are reevaluating
- 6 what we believe to be the fair process for
- 7 compensating songwriters. And the industry can say
- 8 150 is for charting purposes, and we know that
- 9 that's, you know, the value that has been
- 10 established for charts.
- We are not a chart. We are a service
- 12 that, you know, we sell our service to a customer.
- 13 So it doesn't necessarily mean we have to equate to
- 14 where that chart evaluation is. We believe that the
- 15 songwriters deserve a very fair level of
- 16 compensation, and that's where we came up with the
- 17 100.
- 18 It also equates to -- and this, I think,
- 19 was the first point that I made -- it equates to the
- 20 mechanical. And for us that's a very simple, clean,
- 21 calculation.
- JUDGE STRICKLER: You may it equates.
- 23 Because doing the math dividing by 100, it is easy,
- 24 you can see it with the naked eye, rather than
- 25 having to do the math?

- 1 THE WITNESS: That's correct. So I go
- 2 back to it is something that could be understood
- 3 very easily. So we believe it is an easy number to
- 4 understand, and it is a very fair value.
- 5 BY MR. CENDALI:
- 6 Q. Now, Mr. Dorn, Apple also has an expert
- 7 who will be testifying after you that you -- and you
- 8 are aware of that, correct?
- 9 A. Yes, I am.
- 10 Q. And you understand that that expert is
- 11 looking at a lot of different conversion rates from
- 12 different sources other than just the Official
- 13 Charts Company, correct?
- 14 A. That's correct.
- 15 Q. And do you understand that that expert is
- 16 also talking about academic literature that talked
- 17 about a 137-to-1 conversion rate, correct?
- 18 A. That's correct.
- 19 Q. And was all that part of Apple's analysis
- 20 as well in coming to the 100-to-1 proposal?
- 21 A. Yes.
- MS. ARORA: Objection, Your Honor, this
- 23 is outside the scope of Mr. Dorn's direct and
- 24 rebuttal testimony.
- MS. CENDALI: I am following up on His

- 1 Honor's testimony, and this is not outside the
- 2 scope. He talked about the different rates
- 3 extensively in his expert report. And I'm, to be
- 4 helpful to the Court, pointing out that the expert
- 5 is also going to be talking about it in more detail.
- 6 MS. ARORA: He has already testified as
- 7 to what he had in his direct and rebuttal testimony.
- 8 JUDGE BARNETT: Okay. And I don't think
- 9 he added anything to that, other than to say he
- 10 knows that there is an expert who is coming to
- 11 testify about something more. So overruled.
- 12 JUDGE STRICKLER: It is like previews.
- MS. CENDALI: Previews are good, right.
- 14 BY MR. CENDALI:
- 15 Q. So, Mr. Dorn, one more question on the
- 16 rate and then I want to get to some of the other
- 17 elements of Apple's proposal.
- 18 How does Apple's proposed rate compare
- 19 with the amounts that are currently being paid in
- 20 the industry for interactive streaming as best you
- 21 know?
- 22 A. Well, currently interactive streaming
- 23 pays a percentage basis. And so Apple's rate is a
- 24 rate that pays at obviously per play. There are a
- 25 number of instances where songs are being valued at

- 1 different -- where a song stream is being valued
- 2 differently, and so we believe that setting a single
- 3 rate is the right way to go because it creates a
- 4 conformity that is, again, easily understood.
- 5 Q. Do you have a view as to whether Services
- 6 or will Services pay more or pay less or will it
- 7 vary? What would be the impact?
- 8 A. I think there is going to be variation
- 9 from the current model that exists, but in the
- 10 future there is one payment method. And it is,
- 11 again, applied evenly across any of the Services.
- 12 And it makes it easy to model what your costs are
- 13 going to be, in addition to being able to transfer
- 14 that understanding to the community.
- 15 Q. So let's go back to Apple Demonstrative
- 16 3, Apple's proposal. And let's look at the second
- 17 bullet point there or category, non-fraudulent
- 18 plays.
- 19 Could you explain to the Board what is
- 20 meant by that part of Apple's proposal?
- 21 A. Right. So we state this specifically
- 22 because there are ways to game the system. And for
- 23 us, a play should be a legitimate play by somebody
- 24 who is actively saying I want to listen to this song
- 25 and they listen to it.

- 1 There are a multitude of ways to be
- 2 fraudulent, but I will just call out two simple
- 3 ones. One is you could hire a room full of people
- 4 who would do nothing but sit and listen to one song
- 5 all day long and they are able to elevate the number
- 6 of streams. And we have seen that happen.
- 7 There are also ways to create bots, so it
- 8 is software program writing, so that a song is
- 9 streamed by a number of computers. Again, sitting
- 10 in a room or in a server room and it just plays the
- 11 same song over and over again. We don't believe
- 12 that is a legitimate play, so we eliminate that from
- 13 the calculus.
- JUDGE STRICKLER: When you say you
- 15 eliminate it from the calculus, do you have anything
- 16 in the terms, as opposed to the rates, that would
- 17 allow the fraudulent plays to be identified and
- 18 excluded?
- 19 THE WITNESS: We do. I believe I would
- 20 have to read through our terms of service, but I'm
- 21 pretty sure that we do not allow that. But I would
- 22 have to read through, again, for the exact language
- 23 on that.
- 24 JUDGE FEDER: How does one identify which
- 25 plays are fraudulent and who does the identifying?

- 1 THE WITNESS: Yeah, it is -- it is a very
- 2 complicated process, as you can imagine, to be able
- 3 to determine is this a Taylor Swift fan who is a
- 4 young girl who listens over and over again and that
- 5 is legitimate, versus a bot that just is playing it
- 6 50, you know, 57 times in one day or however many
- 7 times you would listen to the song.
- 8 We are generally able to tell a
- 9 fraudulent play based on something that for us just
- 10 seems like it is completely out of character with
- 11 that listening behavior. But it is not something
- 12 that is easy to do.
- And it is one of those things where we
- 14 have software that helps us detect when we see a
- 15 song is streaming over and over again from one IP
- 16 address, but it is not something you can't go
- 17 through the other end of the line and actually look
- 18 and see who is doing that. So you have to use
- 19 software to help you identify when you believe a
- 20 specific song play over and over again counts as
- 21 fraudulent. And we try our best to identify those
- 22 opportunities.
- JUDGE FEDER: From the songwriter's
- 24 perspective, would you say that introduces an
- 25 element of non-transparency? Because the songwriter

- 1 doesn't really have much visibility into how you,
- 2 Apple, determine whether a play is legitimate or
- 3 fraudulent.
- THE WITNESS: A good question. I don't
- 5 believe that there is a level of transparency from
- 6 the content creator's standpoint to where they are
- 7 able to look at those plays specifically and say in
- 8 reporting, you know, these are legit or these are
- 9 fraudulent.
- This is Apple, you know, basically taking
- 11 the position where we don't believe that fraudulent
- 12 plays are how we would like to run our service or to
- 13 compensate rightsholders. We would like real fans
- 14 who are listening to music, whether they are
- 15 listening to it over and over again or not is fine,
- 16 it is just as long as a real fan is listening to
- 17 that, we want to compensate that content creator
- 18 every single time that happens.
- JUDGE FEDER: I understand that. My
- 20 question or my concern is who decides? And is there
- 21 any opportunity for a content creator to challenge
- 22 the determination that Apple makes that that was not
- 23 a legitimate play?
- 24 THE WITNESS: Well, we have an audit
- 25 process, so that does exist. It is not as though

- 1 the content owners or the sound recording labels
- 2 don't have the ability to, you know, to come and
- 3 speak with us about that very specific fact.
- 4 This is not something that is a problem
- 5 where every single pop song that we have is being
- 6 fraudulently played. And so it is something that we
- 7 spend quite a bit of time monitoring. And there is
- 8 a process where we can speak with the -- with those
- 9 rightsholders, so that does exist.
- 10 But I think it is in all of our interests
- 11 to make sure we have legitimate consumers listening
- 12 to music in legitimate ways.
- JUDGE STRICKLER: I thought you mentioned
- 14 before that your direct deals were
- 15 percentage-of-revenue rates. So if they are
- 16 percentage of revenue, this issue doesn't come up,
- 17 right?
- 18 THE WITNESS: Well, it is -- that's not
- 19 going to come up here, but it is certainly going to
- 20 -- in that particular case, but, again, we're not
- 21 running a service to have bots fooling us all day
- 22 long.
- So we want to make sure that in this
- 24 particular context here, that where we have a
- 25 per-stream rate, that we are counting legitimate

- 1 streams for legitimate plays.
- JUDGE STRICKLER: Do you have a per-play
- 3 rate structure, whether it is for sound recordings
- 4 now or royalties or for mechanical royalties in your
- 5 direct deals that are on a per-play basis?
- JUDGE FEDER: You might want to go into
- 7 restricted.
- 8 JUDGE STRICKLER: Yeah, if you need to go
- 9 into restricted.
- 10 BY MR. CENDALI:
- 11 Q. Can you speak to this on a non-restricted
- 12 basis or not? Do you understand the question?
- JUDGE STRICKLER: You don't want to
- 14 reveal things.
- 15 THE WITNESS: I certainly don't want to
- 16 reveal things that are proprietary for Apple. So I
- 17 would prefer to not reveal that right here, if we
- 18 can.
- MS. CENDALI: Can we save it to the
- 20 restrictive portion of the exam?
- 21 THE WITNESS: Is that okay?
- 22 BY MR. CENDALI:
- Q. So let's turn to the next item on a
- 24 feature of Apple's proposal, the plays greater or
- 25 equal to 30 seconds.

- 1 Could you explain why Apple is proposing
- 2 that?
- A. Yes. So equal or greater to 30 seconds,
- 4 30 seconds is an industry standard at this point for
- 5 a sampling rate. We believe that anything below 30
- 6 seconds is not really a listening experience.
- 7 Beyond 30 seconds, we believe that the music fan is
- 8 actually engaged and listening and that is an active
- 9 listening experience.
- The problem that we have is that, you
- 11 know, in the content owners proposal, that if a song
- 12 is played, that that creates a structure for a
- 13 payment. And that is a problem because there are
- 14 often times when somebody is skipping through music,
- 15 trying to find something, they listen to something,
- 16 it is not what they want, or they by accident hit
- 17 the play button and they are not intending to
- 18 listen.
- So what we're interested in here is in a
- 20 play that was meaningful. It was an intended play
- 21 and the person has listened through long enough to
- 22 enjoy that song.
- 23 BY MR. CENDALI:
- Q. Now, turning to the last item on the
- 25 proposal, all-in, is Apple's proposal of the .00091

- 1 rate an all-in rate?
- 2 A. It is an all-in rate.
- Q. Could you explain what that means and why
- 4 Apple is proposing it?
- 5 A. Sure. So the all-in rate applies to both
- 6 the mechanical and to the performance. And, again,
- 7 what we're trying to do here is create one rate that
- 8 makes it easy for that songwriter, the publisher, to
- 9 understand, and so we believe that the all-in rate
- 10 is the right approach.
- 11 Q. Now, let's turn to the Copyright Owners'
- 12 proposal in this proceeding. Have you reviewed that
- 13 proposal?
- 14 A. Yes.
- 15 Q. Let's look at Apple Demonstrative 9. Do
- 16 you recognize this as summarizing some of the
- 17 aspects of the Copyright Owners' proposal?
- 18 A. I do.
- 19 Q. Now, first, as a threshold matter, do you
- 20 understand that the Copyright Owners are also
- 21 proposing a per-play rate structure?
- 22 A. They are.
- Q. And in that area, is Apple in agreement
- 24 with the Copyright Owners?
- 25 A. We are.

- 1 O. All right. Now, let's look, though, at
- 2 the first bullet on the right-hand side of Apple
- 3 Demonstrative 9, referring to mechanical-only.
- 4 Does Apple support the Copyright Owners'
- 5 proposal of a mechanical-only royalty?
- 6 A. We do not.
- 7 Q. Why?
- 8 A. Well, the mechanical-only only addresses
- 9 one portion of the overall payment. And of course
- 10 the performance is not contemplated there. And so
- 11 when you add the performance rate on top of that, in
- 12 our opinion is -- it is far reaching and it creates,
- 13 again, more uncertainty for us in being able to
- 14 explain exactly how much is being paid, but also it
- 15 creates for us a financial issue in being able to
- 16 run our service.
- 17 JUDGE STRICKLER: Isn't the performance
- 18 royalty paid on a percentage basis, percentage of
- 19 revenue?
- THE WITNESS: Um-hum.
- JUDGE STRICKLER: So you have to convert
- 22 the percentage of revenue in some way into a flat
- 23 per-play rate in order to figure out what the all-in
- 24 rate is?
- 25 THE WITNESS: Yeah, so the all-in rate is

- 1 the performance rate, the all-in rate minus the
- 2 performance rate arrives at the mechanical rate.
- JUDGE STRICKLER: But how do you convert
- 4 the performance rate, which is a percentage into a
- 5 per-play rate, since it is a per-play rate structure
- 6 that you are proposing, if you know?
- 7 THE WITNESS: I do not know. I'm sorry.
- JUDGE STRICKLER: Thank you.
- 9 BY MR. CENDALI:
- 10 Q. All right. Now, would having a
- 11 mechanical-only rate mean that you would have to
- 12 have separate negotiations for the performance rate?
- 13 A. It does mean that, yes.
- Q. And to what extent would that impact any
- 15 issues of transparency or predictability?
- 16 A. Well, again, then there is a separate
- 17 negotiation with another rate, and it has added more
- 18 complexity to the overall payment and to the
- 19 understanding by the community, we believe, to how
- 20 they are being compensated.
- Q. Now, let's look at the second bullet on
- 22 the ride side of the demonstrative, Apple
- 23 Demonstrative 9, which is the Copyright Owners'
- 24 proposal, the .0015 per-play rate.
- Does Apple support that per-play rate?

- 1 A. We do not.
- Q. Why not?
- A. So, again, as I have said previously, we
- 4 believe that this amount is in excess of what we
- 5 think is the fair rate. The fair rate is the one
- 6 that we have put forth, .00091.
- 7 And we believe that that is the right
- 8 rate for us to go with as an industry.
- JUDGE STRICKLER: Excuse me. I am still
- 10 confused. Maybe it is me, maybe I am being dense
- 11 about this, but I understand that you think yours is
- 12 fairer, but I still don't understand, other than
- 13 that it is simpler, maybe that is all there is, what
- 14 it is that makes you conclude that it is fairer?
- THE WITNESS: Well, if we look at how the
- 16 current payment structure works with how songs are
- 17 being valued, there is a percentage basis right now
- 18 that values songs at significantly less than this on
- 19 the stream basis, and then there is this proposal,
- 20 which we believe is more than what is the fair rate.
- 21 And so we believe that the rate that sits
- 22 in the middle of that or that sits somewhere in the
- 23 middle of that is a fairer way to approach this.
- 24 And, again, it is a simple approach that is based on
- 25 how the charts work, what the mechanical is, and we

- 1 arrive at a number that we believe is consistent
- 2 with industry standards today.
- JUDGE STRICKLER: Okay. So it is higher
- 4 than the proposed rate by the other Services and the
- 5 existing rate, but it is lower than what the
- 6 Copyright Owners want. So --
- 7 THE WITNESS: Sure.
- 8 JUDGE STRICKLER: So I should have said
- 9 honest broker, I should have said Goldilocks, right?
- 10 THE WITNESS: That's exactly how I
- 11 phrased it yesterday. It is kind of like the baby
- 12 bear, if you want to think about it that way, it's
- 13 not too hot, not too cold, it's just right.
- 14 JUDGE STRICKLER: Okay. And I don't know
- 15 if that was a popular story or not --
- 16 THE WITNESS: I don't know, but we're in
- 17 agreement.
- 18 JUDGE STRICKLER: Very good.
- 19 BY MR. CENDALI:
- 20 Q. To ask it another way, Mr. Dorn, is
- 21 Apple's rate the product of the conversion rate we
- 22 discussed earlier of the download to the 1-to-100
- 23 conversion rate based on the industry -- the charts
- 24 for Billboard and the OCC, et cetera?
- 25 A. That's correct. We're using industry

- 1 standards today to arrive at a rate.
- Q. And so are the Copyright Owners rate that
- 3 it proposes, would it be higher than what would be
- 4 reflected in the conversion rates at either 1-to-100
- 5 or 1-to-150 as reflected by the --
- 6 A. It would be, yes.
- 7 Q. All right. Now, I am looking at the
- 8 third bullet on the demonstrative, the per-user
- 9 prong. Do you understand that the Copyright Owners
- 10 are suggesting, in addition to a per-play rate, that
- 11 there would also be a greater-of payment to them of
- 12 \$1.06 per user?
- 13 A. Yes, we do. I do.
- 14 Q. Does Apple support that?
- 15 A. Apple does not support that.
- 16 Q. Why not?
- 17 A. So, again, it adds more complexity to the
- 18 overall equation. It makes it harder for people to
- 19 understand how they are being paid. And I would
- 20 also add that part of the proposal is a per-user
- 21 \$1.06 regardless of the user.
- 22 So when we look at our family plan, that
- 23 would be \$6.36 potentially that could be added per
- 24 user. And we just simply could not offer that
- 25 family plan with a \$6.36 per-user rate on a monthly

- 1 basis.
- JUDGE STRICKLER: When you say it would
- 3 add the \$1.06 per user, would add complication and
- 4 be harder for people, I think is the word you used,
- 5 people to understand --
- 6 THE WITNESS: Songwriters. Yeah.
- 7 JUDGE STRICKLER: Songwriters are people
- 8 too.
- 9 THE WITNESS: They are. I just wanted to
- 10 make sure we were talking about the actual
- 11 subscribers to the service.
- 12 JUDGE STRICKLER: So we're talking about
- 13 songwriters. It is your testimony then we should
- 14 set a rate based on what we think songwriters as a
- 15 whole are capable of understanding?
- 16 THE WITNESS: I am not sure I would state
- 17 it that way. I am going to go back to stating it
- 18 the way that I did so far, that there are industry
- 19 standards that existed for a very long time that are
- 20 accepted. And what Apple is saying is that those
- 21 industry standards are simple, easy to understand,
- 22 and fair.
- 23 And what we should do is we should create
- 24 the same level at this point, the time is right now
- 25 to create the same level of simplicity,

- 1 transparency, and fairness, in the way that the rate
- 2 is structured. And the more things that we add on
- 3 top of this, the more difficult it is, one, for, I
- 4 believe, the content owners to understand in how
- 5 they are being paid and, Number 2, it adds a level
- 6 of complexity for the service providers to be able
- 7 to operate their services and to be profitable to
- 8 continue to invest.
- 9 So in this particular case, I think it
- 10 adds more complexity, but what it also does is it
- 11 creates a very difficult environment for the service
- 12 providers collectively because it significantly
- 13 increases the costs of those copyright payments.
- 14 JUDGE STRICKLER: So the ability of
- 15 songwriters to understand the rates is only one
- 16 factor among several?
- 17 THE WITNESS: That is correct. And I
- 18 think we always have to look at -- and I think
- 19 that's the basis of our proposal overall, is that
- 20 there is the community that is creating content and
- 21 then there is the community that is building the
- 22 services that helps to get this content in front of
- 23 consumers in ways that creates engagement and
- 24 generates revenues.
- 25 And both of them have an interplay here

- 1 in how we look at these rates and how they affect
- 2 that overall equation.
- 3 BY MR. CENDALI:
- Q. So, Mr. Dorn, if under the Copyright
- 5 Owners' proposal, if an Apple Music subscriber
- 6 listens to one song a month, would Apple Music have
- 7 to pay \$1.06?
- 8 A. We would. So we would have to pay if
- 9 they listened to only one song. We would also have
- 10 to pay if they came in at the beginning of the month
- 11 on the first day or on the last day of the month,
- 12 we're still responsible for that payment.
- 13 Q. Now, let's look at the last or the fourth
- 14 bullet.
- 15 JUDGE FEDER: Excuse me. If that same
- 16 consumer listens only to one song, you still get
- 17 paid \$9.99 for the month, correct?
- 18 THE WITNESS: That is true.
- JUDGE FEDER: And if the user listens to
- 20 700 songs, they still pay \$9.99?
- 21 THE WITNESS: That is true.
- JUDGE FEDER: Okay.
- 23 BY MR. CENDALI:
- Q. But for the \$9.99, Mr. Dorn, do you
- 25 believe that consumers are getting the features of

- 1 Apple Music that we discussed earlier?
- 2 A. That's true. And so there are other
- 3 things inside the ecosystem that that person can be
- 4 paying for. There are social aspects. There is
- 5 interaction with the artist community through
- 6 Connect. There are different things that that
- 7 person can do inside of Apple Music that creates
- 8 value.
- 9 And the songs are obviously a large
- 10 portion of what is available to the consumer who is
- 11 paying that monthly subscription, but there are
- 12 other aspects of the service.
- 13 Q. Now, Mr. Dorn, looking at the fourth
- 14 bullet, the 1.5 percent late fee per month, do you
- 15 understand that the Copyright Owners are suggesting
- 16 such a fee?
- 17 A. Yes.
- 18 Q. What is Apple's view of that?
- 19 A. So Apple doesn't support this for a
- 20 couple of reasons. One, on an annual basis, that's
- 21 a pretty high percentage rate, 18 percent, when we
- 22 look at that over 12 months, but the other problem
- 23 that we have is that there is an issue, and it is a
- 24 known issue inside of the music industry, especially
- 25 with Services, it is something called unmatched.

- 1 It is where songs are sold or streamed
- 2 where we actually don't know who the songwriter is
- 3 or the publisher in some cases. All of the
- 4 information hasn't been supplied to us. And while
- 5 we endeavor to pay everyone, every time something is
- 6 streamed, and that is our goal, there are just
- 7 sometimes where we don't have that information. It
- 8 hasn't been supplied to us. And so we have to spend
- 9 some time trying to figure out who it is we are
- 10 supposed to pay. We do that, but it takes time.
- JUDGE STRICKLER: I think one of the
- 12 other Services' witnesses testified as to a
- 13 willingness to pay those unmatched royalties into an
- 14 interest-bearing escrow fund. I don't want to give
- 15 you legal analogies, you are not a lawyer. But
- 16 would Apple be willing to do that as well, to avoid
- 17 the late fee issue?
- 18 THE WITNESS: I am not the right person
- 19 to address that to from Apple, so I couldn't comment
- 20 on that.
- JUDGE STRICKLER: Thank you.
- JUDGE FEDER: Who responsibility is it to
- 23 get you that information that is used to match songs
- 24 to publishers?
- 25 THE WITNESS: It is the publishing

- 1 community. Harry Fox is who we deal with to get
- 2 that information. And we work very closely with
- 3 them to get it. We just don't always get it for
- 4 every single song and every writer. So it takes
- 5 time.
- JUDGE FEDER: Have you encountered that
- 7 problem, again this might be something for
- 8 restricted session, but is this a problem you have
- 9 encountered in paying mechanical royalties for
- 10 downloads?
- THE WITNESS: Um-hum, absolutely. Yeah.
- 12 Unmatched income is a problem that exists on the
- 13 download or the streaming side.
- 14 BY MR. CENDALI:
- 15 Q. Now, turning then to the last bullet of
- 16 the Copyright Owners' proposal, do you, referring to
- 17 the Copyright Owners' proposal to eliminate the
- 18 music locker categories, does Apple support this?
- 19 A. No, Apple does not support this.
- 20 Q. Does Apple have a live proposal with
- 21 regard to music lockers?
- 22 A. We do.
- Q. Let me show you Apple Demonstrative 10.
- 24 Do you recognize this as a summary of Apple's locker
- 25 services proposal?

- 1 A. I do.
- Q. And so focusing on the first red box on
- 3 Demonstrative 10, what is Apple's proposal for paid
- 4 locker services?
- 5 A. Apple's proposal on the paid locker
- 6 services is 17 cents per subscriber per month.
- 7 O. And is that the current statutory
- 8 minimum?
- 9 A. Yes.
- 10 Q. So now looking at the second red box on
- 11 Demonstrative 10, what is Apple's proposal for
- 12 purchased content locker services?
- 13 A. Apple's proposal is zero royalties.
- 14 Q. Now, looking back at Apple Demonstrative
- 15 9, do you understand that in the Copyright Owners'
- 16 proposal for locker services, the Copyright Owners
- 17 are seeking a royalty for every time a song streams,
- 18 even if it was already purchased by the consumer?
- 19 A. Yes.
- Q. Does Apple support that?
- 21 A. No.
- 22 O. Why not?
- 23 A. So traditionally when a song is
- 24 purchased, and when I use the word traditionally, I
- 25 mean historically for decades, a song is purchased

- 1 and the copyright owner is paid at that purchase
- 2 time, so whether it is a song that is purchased from
- 3 the iTunes Music song, a single on vinyl, an album,
- 4 whether it is physical or digital, we pay for each
- 5 of those songs. And the consumer -- the contract is
- 6 that the consumer is allowed to listen to that music
- 7 as often as they want, any time they want. But
- 8 there is no future payment.
- And so when we talk about a paid locker
- 10 with zero royalties, what we're saying is there are
- 11 people who have been purchasing music for many
- 12 years.
- JUDGE STRICKLER: You mean purchase
- 14 content?
- 15 THE WITNESS: It is purchased content,
- 16 yeah. And that purchased content is coming from
- 17 different means, but from the iTunes Music store, if
- 18 we just look at that, Apple's business that we run,
- 19 when somebody buys that song, they have the ability
- 20 to listen to that any time. They don't get -- there
- 21 is no further compensation at the mechanical level.
- 22 And the locker service that we operate
- 23 with zero royalties is merely for the ability to
- 24 re-download that song to their device. Maybe their
- 25 device was stolen. Maybe the device burned in a

- 1 fire or was damaged in some way or they buy a new
- 2 device.
- 3 So all we're saying is you have purchased
- 4 the content, it is yours, and you have the ability
- 5 to re-download the content and listen to it.
- JUDGE STRICKLER: Are there costs
- 7 involved in Apple constructing the purchased content
- 8 locker service?
- 9 THE WITNESS: Your just need to define
- 10 costs. When you say cost, cost to the consumer or
- 11 cost to Apple?
- JUDGE STRICKLER: I'm sorry, cost to
- 13 Apple.
- 14 THE WITNESS: Costs to Apple, yes, there
- 15 are always costs for us having to run a service
- 16 where there are servers and re-download, but that's
- 17 part of what we do for the customer is that they
- 18 have the ability to re-download that song as many
- 19 times as they would like.
- 20 JUDGE STRICKLER: Are there marginal
- 21 costs to Apple with regard to maintaining a
- 22 purchased content locker service; that is, every
- 23 time someone wants to store a song in the cloud
- 24 through a purchased content locker service, is there
- 25 a positive cost that is incurred by Apple?

- 1 THE WITNESS: So are we talking about now
- 2 the other kind of locker service, which is the one
- 3 where we sell that locker service on an annual
- 4 basis?
- 5 JUDGE STRICKLER: No. I am talking about
- 6 the one you want for zero royalties.
- 7 THE WITNESS: So for zero royalties when
- 8 a consumer purchases a song or album from iTunes and
- 9 it sits there and then they download it to their
- 10 device, I want to make sure I am clear, that that's
- 11 the instance you are referring to?
- 12 JUDGE STRICKLER: You could also do it
- 13 off streaming as well, somebody who has a
- 14 subscription to an Apple streaming product has the
- 15 ability to store a product as well when they
- 16 purchase content locker service? Or no?
- 17 THE WITNESS: They have purchased content
- 18 that historically, and they are able to stream
- 19 content from the Apple Music streaming service.
- 20 JUDGE STRICKLER: And store that?
- 21 THE WITNESS: Well, yes, it is stored
- 22 there in perpetuity as a result of being purchased
- 23 previously from the iTunes Music store.
- JUDGE STRICKLER: Let him finish.
- MS. CENDALI: I'm sorry.

- 1 THE WITNESS: So what I was referring to
- 2 is that that content that they have purchased
- 3 previously, they have access to listen to that.
- 4 That does sit in a locker that is from a purchased
- 5 piece of content.
- But it is not the streamed content that
- 7 sits in the Apple Music streaming service. In other
- 8 words, that is content that they have not purchased
- 9 previously and that they are listening to.
- 10 JUDGE STRICKLER: Purchased content
- 11 locker service only refers to the downloads?
- 12 THE WITNESS: It is a download locker
- 13 service, yes.
- 14 JUDGE STRICKLER: So when somebody
- 15 decides to put a song that they have downloaded into
- 16 the purchased content locker, is there a marginal
- 17 cost every time a song is put into that purchased
- 18 content locker? Is there a positive cost of any
- 19 sort incurred?
- 20 THE WITNESS: I don't know the answer to
- 21 that question.
- 22 JUDGE STRICKLER: Okay. One last quick
- 23 question on locker services. Does Apple offer a
- 24 paid locker service?
- 25 THE WITNESS: Apple previously offered a

- 1 paid locker service. We no longer offer that to new
- 2 consumers. It is a service that still exists for
- 3 those who have subscribed historically to that
- 4 service, but we don't offer it any more.
- 5 JUDGE STRICKLER: So going forward with
- 6 new consumers, you want zero royalties for the
- 7 purchased content locker service that you do offer,
- 8 but a positive rate for the paid locker service that
- 9 other services offer, not Apple going forward?
- 10 THE WITNESS: Well, to the service that
- 11 Apple historically operated, in other words, the one
- 12 that we still maintain for those who are still
- 13 paying for that service, that is what we are
- 14 proposing the .17 cents, the .17 cents per month,
- 15 per subscriber. That -- we still maintain that
- 16 service. We just don't offer it to anyone as a new
- 17 user.
- JUDGE STRICKLER: So new users on other
- 19 services, if they wanted to use a paid locker
- 20 service would pay a positive fee, and Apple would
- 21 only offer their purchased content locker services?
- 22 THE WITNESS: I can't speak for other
- 23 services, but I can certainly speak for Apple. We
- 24 don't offer that service any more.
- 25 JUDGE STRICKLER: Thank you. I think

- 1 there is another question.
- JUDGE BARNETT: Mr. Dorn, the purchased
- 3 content locker service is not a separately-available
- 4 service that consumers pay for. Is it included in
- 5 the \$9.99?
- 6 THE WITNESS: No. It is separate.
- JUDGE BARNETT: It is separate?
- 8 THE WITNESS: It is separate. So think
- 9 about it this way. It is not something that you
- 10 sign up for and that you pay for. If you buy music
- 11 from Apple, we have a record of the fact that you
- 12 have purchased that music from us historically.
- JUDGE BARNETT: So it is automatic?
- 14 THE WITNESS: It is an automatic access
- 15 to things that you have purchased previously.
- JUDGE BARNETT: From Apple?
- 17 THE WITNESS: From Apple, exactly.
- 18 JUDGE BARNETT: But a user couldn't
- 19 upload CDs that they have purchased and store them
- 20 in that?
- 21 THE WITNESS: So that is our previous
- 22 service that we offered.
- JUDGE BARNETT: That was the paid locker?
- 24 THE WITNESS: That's the paid locker
- 25 service that we no longer offer to consumers.

- 1 JUDGE BARNETT: Okay. Thanks.
- 2 BY MR. CENDALI:
- Q. So one last question, I think, for me on
- 4 the locker services. What would the business effect
- 5 be of implementing the Copyright Owners' proposal on
- 6 lockers on Apple?
- 7 A. Well, first, it would make it impossible
- 8 for us to offer those services if we chose to do it
- 9 again. We don't currently offer that. But it
- 10 certainly would not make it feasible for us to offer
- 11 a locker service.
- 12 And from what I understand, the content
- 13 owners are proposing \$1.06 per user for those locker
- 14 services, for content that is accessed, meaning
- 15 previously purchased content. And I am talking now
- 16 about content that is purchased from the iTunes
- 17 Music store, and so we could not offer that on a per
- 18 user basis for the number of people who access their
- 19 music that they have previously purchased.
- 20 Q. Now, I have about two minutes that is
- 21 restricted session and then I should be done with my
- 22 questions, subject to whatever questions the Board
- 23 would have. I would like to go then to restricted
- 24 session. It will be brief.
- 25 And because I am only talking about Apple

- 1 restricted content, the Apple in-house lawyers who
- 2 are here, I believe, can stay. I don't know if
- 3 there is anyone else who would not apply but of
- 4 course it is up to Your Honor.
- 5 JUDGE BARNETT: Okay. Thank you. At the
- 6 end of this restricted session, we will take our
- 7 recess. So anybody who is going out now, feel free
- 8 to take off and get a cup of coffee or whatever.
- 9 So if you are in the courtroom or hearing
- 10 room and do not have authorization to hear
- 11 privileged, restricted, or confidential information,
- 12 please wait outside. There is a huge group of
- 13 people who came in and is sitting together. I don't
- 14 know who you are.
- 15 MS. CENDALI: Those are my team at Apple.
- 16 They have been working really, really hard over at
- 17 Kirkland's offices. You also will see two of our
- 18 experts who will be testifying soon thereafter, to
- 19 get a feel for the court. And I am also like to
- 20 introduce you, Your Honor, to this time to Mr.
- 21 Robert Windham, in-house counsel for Apple and David
- 22 Weiskopf, in-house counsel for Apple. So basically
- 23 they are my guys.
- JUDGE BARNETT: Thank you. And this is
- 25 the way you reward them?

1	(Laughter)
2	MS. CENDALI: Well, Your Honor, they are
3	really excited to get to go to court. So
4	JUDGE BARNETT: Okay.
5	JUDGE STRICKLER: Check with them in a
6	few minutes.
7	MS. CENDALI: We will check in about six
8	months and then we will know.
9	(Whereupon, the trial proceeded in
10	confidential session.)
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

- 1 OPEN SESSION
- 2 CROSS-EXAMINATION
- 3 BY MS. ARORA:
- Q. My name is Kaveri Arora, but I represent
- 5 the Copyright Owners.
- JUDGE BARNETT: I'm sorry, counsel. Are
- 7 there any representatives of the other Services who
- 8 want to cross-examine this witness before the
- 9 Copyright Owners do?
- 10 MR. ELKIN: Not Amazon.
- 11 MR. STEINTHAL: No.
- MR. MARKS: No.
- JUDGE BARNETT: All right. Thank you.
- 14 Apology. I had instructed everyone to be sure and
- 15 let me know if you did, but given there is a bit of
- 16 a dichotomy on this side of the -- okay. Go ahead.
- 17 BY MS. ARORA:
- 18 Q. The percentage-of-revenue structure was
- 19 the product of a 2008 settlement, correct?
- 20 A. Yes.
- Q. And I think you testified that in 2008
- 22 the long-term prospects for interactive streaming
- 23 were uncertain; is that right?
- 24 A. Yes.
- Q. And you state in your written direct

- 1 statement that because the future of the interactive
- 2 streaming market were uncertain in 2008, a
- 3 percentage-of-revenue structure was appropriate
- 4 because it avoided the burden of the Services paying
- 5 a fixed cost while the market was still developing;
- 6 is that right?
- 7 A. Yes.
- 8 JUDGE STRICKLER: You are making
- 9 reference to his written direct?
- 10 MS. ARORA: Paragraph 30, Your Honor.
- JUDGE STRICKLER: Thank you.
- 12 BY MS. ARORA:
- 13 Q. But you would agree today that the
- 14 interactive streaming industry is no longer an
- 15 untested market, correct?
- 16 A. Yes.
- Q. And, in fact, it is a very popular method
- 18 of music distribution and consumption, correct?
- 19 A. Yes.
- 20 Q. And I believe you state in your written
- 21 direct statement that industry reports show that the
- 22 important role that interactive streaming services
- 23 play in the current digital music marketplace; is
- 24 that right?
- 25 A. Yes. And can I just ask you, can you

- 1 speak up a little bit?
- 2 Q. Sure.
- JUDGE FEDER: Can you move the microphone
- 4 closer?
- 5 THE WITNESS: Too many years in rock
- 6 shows for me, sorry.
- 7 BY MS. ARORA:
- 8 Q. No, it is fine. And also in your written
- 9 direct statement you state that digital music
- 10 revenue in the United States grew about 370 million
- 11 dollars from the first half of 2015 to the first
- 12 half of 2016 in large part due to a growth in paid
- 13 subscription to the music streaming services; is
- 14 that right?
- 15 A. Correct.
- 16 Q. Okay. And based on this shift from an
- 17 unproven market to a popular industry, isn't it true
- 18 that a percentage-of-revenue structure which
- 19 protects services by allowing them to enter the
- 20 market without paying for music being streamed is no
- 21 longer appropriate?
- 22 A. That is Apple's position.
- MR. STEINTHAL: Object, Your Honor.
- 24 There is so many -- I mean, it is an incomplete
- 25 hypothetical.

- 1 JUDGE BARNETT: Is that an objection or
- 2 is that just a whinge?
- 3 MR. STEINTHAL: There is so much in
- 4 there, Your Honor, that it is subject to
- 5 interpretation and hypothetical that --
- JUDGE BARNETT: Well, if the witness
- 7 can't answer the question, he can indicate that he
- 8 can't interpret the question.
- 9 THE WITNESS: I'm sorry, could you repeat
- 10 the question?
- 11 BY MS. ARORA:
- 12 Q. Sure. And this is actually taken from
- 13 Mr. Dorn's direct, written direct testimony. It is
- 14 paragraph 32. And what I asked is based on a shift
- 15 from an unproven market to a popular industry, isn't
- 16 it true that a percentage-of-revenue structure which
- 17 protects Services by allowing them to enter a market
- 18 without paying for music being streamed is no longer
- 19 appropriate?
- 20 A. That is Apple's position.
- 21 O. Thank you.
- JUDGE STRICKLER: Well, you actually
- 23 didn't read the entire thing there. You left out
- 24 the parenthetical, which is not parenthetical, just
- 25 literally parenthetical. Your question can stand,

- 1 of course, but you had said on the record you were
- 2 just reading his testimony, but you left out the
- 3 parenthetical.
- 4 MS. ARORA: My apologies, Your Honor.
- JUDGE STRICKLER: The parenthetical says,
- 6 just so the record is clear, without picking up from
- 7 the word without, "without paying for the music
- 8 being streamed, (unless they have subscribers who
- 9 earn revenues in other ways)." Now it is read out
- 10 of his testimony.
- MR. STEINTHAL: Thank you, Your Honor.
- MS. ARORA: Thank you.
- 13 BY MS. ARORA:
- Q. And I am actually now moving to your
- 15 rebuttal testimony. And in paragraph 18 of your
- 16 rebuttal testimony, you state that some publishers
- 17 have shifted their catalogues from ASCAP and BMI to
- 18 SESAC; is that correct?
- 19 A. Yes.
- Q. Do you know which publishers have shifted
- 21 their catalogues from ASCAP and BMI to SESAC?
- 22 A. I don't have a list of that.
- 23 Q. Okay. And we're actually now moving to
- 24 restricted session.
- MS. CENDALI: Counsel, is it restricted

1	as to Apple as well or not?
2	MS. ARORA: No, it is not.
3	MS. CENDALI: Thank you.
4	JUDGE BARNETT: You know the drill
5	(Whereupon, the trial proceeded in
6	confidential session.)
7	
8	
9	
10	
11	
12	
13	
14	
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

- 1 OPEN SESSION
- 2 BY MS. ARORA:
- 3 Q. Moving back to your rebuttal testimony
- 4 and turning to page, I'm sorry, paragraph 45, I'm
- 5 sorry.
- 6 My apologies. You state that "moreover,
- 7 the proposed late fee applies to all late payments
- 8 regardless of why they are late. There is a big
- 9 difference, however, between an interactive
- 10 streaming service making a late payment because it
- 11 did not calculate its payment in a timely manner and
- 12 an interactive streaming service making a late
- 13 payment because it does not know who to pay."
- 14 I'd like to focus on the part of your
- 15 statement regarding the interactive streaming
- 16 services not knowing who to pay. Isn't it true that
- 17 under Section 115 if you want to obtain a mechanical
- 18 license, you need to serve an NOI, also known as a
- 19 notice of intention on the copyright owner in
- 20 advance of using the license?
- 21 A. I don't have that particular document in
- 22 front of me, so I'd have to look at that.
- 23 Q. Okay.
- 24 A. I am not familiar with that.
- 25 Q. Are you aware that a notice of intention

- 1 needs to be served on a copyright owner in advance
- 2 of obtaining a mechanical license?
- 3 A. I am not aware of that.
- Q. Okay. Okay. And going to paragraph 44
- 5 of your testimony, you --
- JUDGE FEDER: Rebuttal testimony?
- 7 MS. ARORA: Rebuttal, my apologies.
- 8 BY MS. ARORA:
- 9 Q. You state that the Copyright Owners are
- 10 proposing a 1 and a half percent late fee per month
- 11 for late interactive streaming and limited download
- 12 royalty payments and you describe this as an
- 13 exorbitant penalty; is that correct?
- 14 A. Yes.
- Q. But are you aware that this is currently
- 16 the late fee in the statute for Subpart A?
- 17 A. I am not aware of that.
- 18 Q. Okay. Do you believe that a late fee
- 19 should be different for one licensee, meaning a
- 20 record label, do you think they should be charged a
- 21 higher late fee than another licensee, meaning a
- 22 streaming service?
- 23 A. I'm sorry, can you restate that?
- Q. Do you think that one licensee, meaning
- 25 let's say a record label, should be charged a higher

- 1 fee for a late payment than another licensee, let's
- 2 say a streaming service?
- 3 A. I'm sorry, I don't have an answer for
- 4 that question because I haven't actually considered
- 5 the question previously. So I don't know.
- 6 MS. ARORA: I have no further questions.
- JUDGE BARNETT: Ms. Cendali, will this be
- 8 open?
- 9 MS. CENDALI: It will be closed but very
- 10 brief. If we're still on restricted?
- JUDGE BARNETT: No, we're open.
- 12 MS. CENDALI: Oh. It would be easier if
- 13 it were restricted. I am just not sure, I'm sorry.
- 14 JUDGE BARNETT: Okay.
- MS. CENDALI: But it is very brief.
- 16 JUDGE BARNETT: Mr. Steinthal?
- 17 MR. STEINTHAL: I just have one question
- 18 to clarify an answer he gave, if that's okay.
- 19 CROSS-EXAMINATION
- 20 BY MR. STEINTHAL:
- 21 Q. When you testified you believed Apple
- 22 would pay less under Apple's proposal than it does
- 23 today, were you referring to what Apple actually
- 24 pays publishers today rather than what Apple would
- 25 pay under the current statutory rate structure?

1	A. I'm referring to the fact that the
2	proposal is not the same valuation as what we
3	currently are paying today. That's what I'm
4	referring to.
5	MR. STEINTHAL: Thank you.
6	JUDGE STRICKLER: So the comparison is
7	between what you are paying under your direct
8	license versus Apple's proposal, not the statutory
9	rate as it exists today versus what Apple is paying
10	today?
11	THE WITNESS: Yes.
12	JUDGE STRICKLER: Thank you.
13	(Whereupon, the trial proceeded in
14	confidential session.)
15	
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

- 1 OPEN SESSION
- JUDGE BARNETT: While we're waiting for
- 3 the distribution of binders, let's ask the witness
- 4 if you would please state your full name and spell
- 5 your last name for the record. Why don't you spell
- 6 both of your names.
- 7 THE WITNESS: Sure, no problem, Jui
- 8 Ramaprasad, J-u-i, and Ramaprasad is
- 9 R-a-m-a-p-r-a-s-a-d.
- JUDGE BARNETT: Thank you.
- 11 MS. SCHMITT: Your Honors, just to
- 12 clarify, we're passing out three binders, but I
- 13 think you only have to really have one in front of
- 14 you for the oral testimony, the first one.
- JUDGE BARNETT: Thank you.
- 16 JUDGE STRICKLER: It begs the question
- 17 why do we have three?
- 18 MS. SCHMITT: We provided other support
- 19 for Doctor -- for the Professor's opinion and we
- 20 wanted to present that, allow Your Honors to have it
- 21 for the record, but we will, we won't be actively
- 22 asking her about it today.
- JUDGE STRICKLER: Are these documents in
- 24 addition to the documents that were already
- 25 submitted as part of the record in connection with

- 1 all of the written direct statements?
- 2 MS. SCHMITT: These are documents that
- 3 she cites as exhibits in her written statements.
- JUDGE STRICKLER: But are not themselves
- 5 exhibits?
- 6 MS. SCHMITT: Yes, that's right. We
- 7 won't be admitting or asking, admitting exhibits
- 8 that have already been introduced as this proceeding
- 9 goes on. Those will be taken out, de-duped.
- 10 JUDGE STRICKLER: Counsel has a response
- 11 to that?
- MR. SCIBILIA: I just want to clarify, I
- 13 don't know whether Apple is intending to move into
- 14 evidence these three binders full of documents. I
- 15 am aware that last night Apple informed us that they
- 16 may introduce up to 111 separate exhibits with Ms.
- 17 Ramaprasad, the vast majority are pages from blogs,
- 18 news articles, all of which are hearsay being
- 19 offered for the truth of the matter asserted.
- JUDGE STRICKLER: When you say that they
- 21 are being offered for the truth of the matter
- 22 asserted, counsel has represented that to you?
- 23 MR. SCIBILIA: Well, in Ms. Ramaprasad's
- 24 statement, she will make a statement about one of
- 25 those blogs and cite it as if it is a fact.

- 1 JUDGE STRICKLER: Well, just before we
- 2 get too deep into this thicket, as an expert witness
- 3 she can testify as to things that an expert
- 4 reasonably relies upon, even though it might
- 5 otherwise be hearsay, not otherwise admissible. So
- 6 do you know, in fact, which way she is going with
- 7 it?
- 8 MR. SCIBILIA: That's a very fair point,
- 9 Your Honor. And I don't want to waste the Court's
- 10 time arguing the admissibility of each and every one
- 11 of these 111 documents. I just wanted to upfront
- 12 say that we believe they are all hearsay. As long
- 13 as they are not being offered for the truth of the
- 14 matter asserted, but, rather, as documents that she
- 15 considered, we're not going to object to them or at
- 16 least to 107 of the 111 exhibits. We do have
- 17 specific objections to four of the exhibits which we
- 18 can raise at the time that they arise.
- 19 MS. SCHMITT: That's right. As far as I
- 20 understand, there is only four exhibits in these
- 21 binders that we have disagreement of. I'm not
- 22 planning to address the exhibits in the second and
- 23 third binder until the end of the testimony. And I
- 24 think we can address that at the time.
- JUDGE BARNETT: Okay. Are you offering

- 1 those 107 for the truth of the matter asserted
- 2 therein or as information upon which the expert
- 3 relied?
- MS. SCHMITT: The latter, Your Honor, to
- 5 give -- to allow a holistic approach to her opinion.
- JUDGE BARNETT: Thank you.
- 7 DIRECT EXAMINATION
- 8 BY MS. SCHMITT:
- 9 Q. Good afternoon, Professor.
- 10 A. Good afternoon.
- 11 Q. I just want to clarify you are appearing
- 12 today as an expert witness for Apple in this matter?
- 13 A. Yes, I am.
- Q. And I understand you just had a baby a
- 15 couple weeks ago.
- 16 A. I did.
- 17 Q. Congratulations.
- 18 A. Thank you.
- 19 Q. I want to thank you for traveling down
- 20 from Montreal to testify today.
- MS. SCHMITT: And, Your Honors, just if I
- 22 may ask your permission, Professor Ramaprasad is a
- 23 new mother, and I think her baby is here, and I
- 24 think she is okay until 5:00 o'clock, but tomorrow,
- 25 at some point in her testimony, if she needs to take

- 1 a break to feed her baby, we might have to ask your
- 2 lenience to let her do that.
- JUDGE BARNETT: Not possible.
- 4 (Laughter)
- 5 JUDGE BARNETT: Of course.
- 6 MS. SCHMITT: This is a first for me.
- 7 And also pursuant to the parties' agreement, the
- 8 witness is here to testify both to her direct
- 9 testimony, as well as her rebuttal just to limit her
- 10 travel time.
- JUDGE BARNETT: Thank you.
- 12 BY MS. SCHMITT:
- 13 Q. Turning back to your testimony,
- 14 Professor, what is your area of expertise that is
- 15 relevant to this proceeding?
- 16 A. I studied the digital music industry.
- 17 I'm an expert in on-line music.
- 18 Q. And have you prepared or directed
- 19 preparation of some demonstrative slides to
- 20 accompany your testimony today?
- 21 A. Yes, I have.
- Q. Turning to the first slide, which is
- 23 marked Apple Demonstrative 11, can you describe what
- 24 is on the screen, please?
- 25 A. Sure. This is my educational background

- 1 and my current employment.
- Q. Can you briefly describe your educational
- 3 background?
- A. Sure. I did my Bachelor's degree at
- 5 Marshall School of Business at the University of
- 6 Southern California. I studied information systems
- 7 and finance.
- 8 And then I completed my Doctoral degree
- 9 at the Paul Merage School of Business at the
- 10 University of California, Irvine, also in
- 11 information systems, where my focus was really on
- 12 studying the music industry and the technology
- 13 impacts of the music industry.
- Q. And could you explain what information
- 15 systems means?
- 16 A. Sure. So information systems is sort of
- 17 our academic word for studying information
- 18 technology and its impacts on organizations and
- 19 industries. And so obviously what I -- and what I
- 20 just said is that I studied in particular
- 21 information technology and the impacts on the music
- 22 industry.
- Q. And are you currently employed?
- 24 A. I am.
- Q. And what is your title?

- 1 A. I am an Associate Professor at the
- 2 Faculty Management at McGill University.
- JUDGE STRICKLER: And you are a professor
- 4 of what there? Information systems?
- 5 THE WITNESS: Information systems, yes.
- JUDGE STRICKLER: Thank you.
- 7 BY MS. SCHMITT:
- 8 Q. And are you tenured?
- 9 A. I am.
- 10 Q. And how long have you been at the
- 11 university?
- 12 A. Since 2009.
- 13 Q. And do you teach courses that pertain to
- 14 on-line music?
- 15 A. I do. I have a course that we call The
- 16 Treble Cliff, the Business of Music. It is an
- 17 interdisciplinary course that takes into
- 18 consideration disciplines like law, music, obviously
- 19 management, computer science, other disciplines, all
- 20 disciplines that sort of feed into the music
- 21 industry.
- Q. And have you done research with regard to
- 23 on-line music?
- 24 A. Yes, I have.
- Q. Could you describe that research

- 1 generally, please?
- 2 A. Sure. As I said, when I was describing
- 3 my dissertation work, I look at the technology
- 4 impacts on the music industry, in particular social
- 5 media, design of on-line platforms, features that
- 6 can be included to motivate payment, things like
- 7 that.
- 8 Q. And how long have you been doing research
- 9 in the on-line music area?
- 10 A. Over ten years.
- 11 Q. And has any of your research on this
- 12 topic been published?
- 13 A. Yes, it has.
- Q. Can you explain some places it has been
- 15 published?
- 16 A. Sure. So some of the top journals we
- 17 have in information systems are Information Systems
- 18 Research and Management Information Systems
- 19 Quarterly, and my research has been published there.
- 20 Q. And have you won any awards for your
- 21 research?
- 22 A. Yes, I have. I have won, in terms of my
- 23 on-line music research, I have won an award, Best
- 24 Paper Award at the Conference on Information Systems
- 25 and Technology, which is one of our bigger

- 1 conferences.
- Q. And do you engage with, you know, outside
- 3 academia, do you engage with music professionals
- 4 from the industry in your work?
- 5 A. Yes, I do. So, as I said, I teach this
- 6 class on the business of music and in that class we
- 7 invite a wide variety of industry professionals for
- 8 the students to interface with, and so this goes
- 9 from, you know, people who work at record labels to
- 10 artist managers to artists themselves to
- 11 entertainment lawyers, so a broad range of people
- 12 from across the music industry that we interact
- 13 with.
- I also often attend a variety of sort of
- 15 industry events, Canadian Music Week, things like
- 16 that, to continue my interaction -- education on the
- 17 music industry.
- 18 Q. And do you speak on issues with regard to
- 19 on-line music outside of academia?
- 20 A. Yes, I do. For example, I talk to press
- 21 outlets often about my research on on-line music and
- 22 its applicability to the real world. I have done
- 23 some interviews with National Public Radio and
- 24 MacLean's Magazine, things like that.
- 25 Q. And as a professor at McGill, which is in

- 1 Canada, is your research and teaching limited to the
- 2 Canadian music industry?
- A. No, not at all. As we know, the music
- 4 industry is a global market, and the U.S. is a large
- 5 part of that, so much of the discussions and the
- 6 work that I do are around the U.S. music market as
- 7 well as Europe and other markets as well.
- 8 Q. And are you trained in statistics?
- 9 A. I am.
- 10 Q. And are you aware of a discipline called
- 11 econometrics?
- 12 A. Yes, I am.
- Q. And can you describe what that is?
- 14 A. Sure. It is basically the application of
- 15 statistics to economic issues or problems.
- 16 Q. And have you studied econometric methods?
- 17 A. I have.
- 18 Q. And do you use them as part of your work?
- 19 A. Yes. In many of my papers that are
- 20 published I use econometrics.
- 21 Q. Thank you, Professor.
- 22 A. Sure.
- MS. SCHMITT: Your Honors, at this point
- 24 I would like to offer Professor Jui Ramaprasad as an
- 25 expert in the digital music industry and

- 1 econometrics.
- 2 MR. SCIBILIA: My objection is -- I'm
- 3 perfectly fine with having her offered as an expert
- 4 in the music industry, although I don't believe she
- 5 ever worked in the music industry.
- I do object to her being offered as an
- 7 econometrics expert. She hasn't laid -- you haven't
- 8 laid that foundation. Just because she has studied
- 9 it doesn't mean that she is an expert in it, nor
- 10 have you proffered her as an expert in that either
- 11 in her paper or in the slides that she is presented
- 12 as a music expert.
- MS. SCHMITT: Her qualifications, she
- 14 just explained that she has used these techniques in
- 15 her research. It is part and parcel of what she
- 16 does. She is an academic. She studies music and
- 17 the business of music. Part of that is statistics.
- 18 She has written papers. They are all --
- 19 JUDGE BARNETT: Ms. Schmitt, you don't
- 20 need to testify. You are arguing.
- MS. SCHMITT: Your Honors, sorry.
- JUDGE BARNETT: Why don't you ask her a
- 23 few more questions to see if we can clear this up.
- MS. SCHMITT: Sorry.
- 25 BY MS. SCHMITT:

- 1 O. As part of your doctoral work, did you
- 2 take classes in econometrics?
- 3 A. Yes, I did. I took many classes in
- 4 econometrics, both theoretical and applied
- 5 econometrics.
- Q. Okay. And you have written many papers
- 7 that have been published, correct?
- 8 A. Yes.
- 9 Q. And those are listed in your CV?
- 10 A. They are, yes.
- 11 Q. And for all -- for basically all those
- 12 papers that are listed in your CV, did you use
- 13 econometric methods in your research?
- 14 A. Yes, I did, yes.
- 15 Q. And do you feel, as part of your
- 16 teaching, do you also review, excuse me, review your
- 17 students' work?
- 18 A. I do. And actually as part of being an
- 19 academic I review other academics' works that use
- 20 applied econometric methods as well. I have to know
- 21 it in order to do that.
- Q. And as part of your work you assess those
- 23 methods and determine whether you feel they are
- 24 appropriate or accurate?
- 25 A. Yes, absolutely.

- 1 MS. SCHMITT: Thank you, Your Honors.
- 2 MR. SCIBILIA: I will just point out that
- 3 nothing in her report contains any econometric
- 4 analysis of anything whatsoever. So my objection
- 5 stands.
- 6 JUDGE BARNETT: Dr. Ramaprasad is
- 7 qualified as an expert in the music industry -- I
- 8 have forgotten how you phrased it -- econometrics
- 9 and digital music industry. Thank you.
- 10 MS. SCHMITT: Thank you, Your Honor.
- 11 BY MS. SCHMITT:
- 12 Q. Now I would like to turn to your written
- 13 testimony in this proceeding.
- 14 Did you submit written testimony in this
- 15 proceeding?
- 16 A. I did.
- Q. We will discuss the details in a moment,
- 18 but can you just briefly describe the subject matter
- 19 of your written direct testimony?
- 20 A. Sure. I was asked to opine and analyze
- 21 on whether Apple's proposal, rate proposal for this
- 22 proceeding was reasonable.
- Q. And did you, as part of your assignment,
- 24 assess the four statutory factors that are at issue
- 25 in this proceeding?

- 1 A. Yes, I did.
- Q. And what was your ultimate opinion about
- 3 Apple's rate proposal?
- 4 A. I thought it was fair and reasonable to
- 5 both the songwriters and the streaming services.
- Q. And if you look behind the first tab in
- 7 the binder, the first binder in front of you, you
- 8 will see a document marked Apple Trial Exhibit
- 9 1615R. Let me know when you have that.
- 10 And, Professor, you could put those other
- 11 two binders on the floor --
- 12 A. Okay.
- 13 Q. -- if they are in your way.
- 14 A. Yes, I have the document in front of me.
- 15 Q. Can you identify what it is?
- 16 A. Sure. It is my written direct testimony.
- 17 Q. Is your CV attached to that testimony?
- 18 A. Yes, it is.
- 19 Q. And turning to the end of your written
- 20 testimony, do your declaration and signature appear
- 21 on the last page?
- 22 A. Yes, they do.
- 23 MS. SCHMITT: Your Honors, at this point
- 24 I would like to offer Apple Trial Exhibit 1615R into
- 25 evidence.

- 1 MR. SCIBILIA: No objection.
- JUDGE BARNETT: 1615 is admitted.
- 3 (Apple Exhibit Number 1615 was marked and
- 4 received into evidence.)
- 5 BY MS. SCHMITT:
- 6 Q. And did you also submit written rebuttal
- 7 testimony in this proceeding?
- 8 A. Yes, I did.
- 9 Q. And we will discuss the details of that
- 10 later also, but can you briefly describe what the
- 11 subject matter of your testimony was?
- 12 A. Sure. I opined and analyzed on the
- 13 Copyright Owners' rate proposal. In particular I
- 14 examined some of the benchmarks that Dr. Eisenach
- 15 put forth.
- 16 JUDGE STRICKLER: When you say we're
- 17 going to examine that later, she is coming back as a
- 18 rebuttal witness or she is going to be doing that
- 19 here?
- MS. SCHMITT: She is going to be doing it
- 21 here. I meant later in this session.
- JUDGE STRICKLER: Thank you.
- 23 BY MS. SCHMITT:
- O. Please look at the second tab in the
- 25 binder that you have and you will see a document

- 1 marked Apple Trial Exhibit 1616R. Let me know when
- 2 you have that.
- 3 A. Yes, I have it.
- 4 Q. Is that your written rebuttal testimony
- 5 in this proceeding?
- 6 A. Yes, it is.
- 7 Q. And turning to the back of that document,
- 8 does your declaration and signature appear on that
- 9 page?
- 10 A. Yes, it does.
- MS. SCHMITT: Your Honors, at this point
- 12 I would like to offer Apple Trial Exhibit 1616R into
- 13 evidence.
- MR. SCIBILIA: No objection.
- 15 JUDGE BARNETT: 1616 is admitted.
- 16 (Apple Exhibit Number 1616 was marked and
- 17 received into evidence.)
- 18 BY MS. SCHMITT:
- 19 Q. Now I would like to discuss your views on
- 20 Apple's proposal for interactive streaming.
- 21 A. Sure.
- Q. I would like to put on the screen a prior
- 23 demonstrative that was used in Mr. Dorn's testimony.
- 24 Can you describe what is shown on the screen,
- 25 please?

- 1 A. Sure. This is the rate proposal, or
- 2 Apple's interactive streaming rate proposal. It
- 3 summarizes it as 0.00091 dollars per play, where a
- 4 play is a non-fraudulent play that is longer than 30
- 5 -- more than or equal to 30 seconds, and this is an
- 6 all-in rate.
- 7 O. Okay. I would like to first focus on
- 8 your opinion about Apple's per-play rate structure
- 9 or the per-play rate structure that is proposed.
- 10 At a high level, what is your opinion of
- 11 a per-play rate structure for interactive streaming?
- 12 A. Sure. I think generally it makes a lot
- 13 of sense. It is very fair and reasonable, as I
- 14 said, predictable for the songwriters and the
- 15 streaming services.
- 16 On the songwriters' side it is
- 17 predictable. On the streaming services' side it
- 18 allows them to sort of know their costs and be very,
- 19 again, predictable again, which allows them to
- 20 innovate and see the returns of their investments.
- O. Does the current rate structure for
- 22 interactive streaming which was adopted, first
- 23 adopted in 2008, also use a per-play rate?
- A. Yes -- oh, no, it does not. Sorry.
- O. What is the current rate based on?

- 1 A. It is a percentage of revenue, generally
- 2 a percentage of revenue structure, with a few other
- 3 prongs, including a per-user rate as well as a
- 4 percentage of sound recording royalties.
- 5 Q. And can you explain sort of in practical
- 6 terms what this means for, you know, how the
- 7 Services pay songwriters in exchange for having the
- 8 right to stream their musical works?
- 9 A. Sure. It means that the songwriters'
- 10 royalty payments depend on the business model of the
- 11 streaming services. So depending on the revenues of
- 12 the streaming services, songwriters' payments -- the
- 13 songwriters' payments depend on that.
- Q. Does the current interactive streaming
- 15 industry differ from the interactive streaming
- 16 industry in 2008 when the current rate was adopted?
- 17 A. Yes, it does.
- 18 Q. I would like to turn to Apple
- 19 Demonstrative 12.
- 20 JUDGE STRICKLER: Just before you do,
- 21 just to follow up, I think this is -- good
- 22 afternoon, by the way, Doctor.
- 23 THE WITNESS: Good afternoon.
- JUDGE STRICKLER: This goes to the
- 25 question you were asking. It is in paragraph 4 of

- 1 your written direct testimony.
- 2 THE WITNESS: Sure.
- JUDGE STRICKLER: On page 2. Are you
- 4 there? Let me know when you are.
- 5 THE WITNESS: Sure. Okay.
- JUDGE STRICKLER: You say: "A per-play
- 7 rate structure for interactive streaming is
- 8 appropriate because it is simple and transparent.
- 9 It also is intuitive for publishers and songwriters,
- 10 and avoids the confusion inherent in the current
- 11 royalty rates and the alternative rates proposed by
- 12 the participants in this proceeding."
- 13 THE WITNESS: Um-hum.
- 14 JUDGE STRICKLER: I take it from your
- 15 testimony before, from reading your report, that you
- 16 are not confused as to what the existing rates are
- 17 and how to understand them and what the proposal is
- 18 from the Services other than Apple. Is that a fair
- 19 statement?
- 20 THE WITNESS: I am not confused about
- 21 what the proposals are, yes.
- JUDGE STRICKLER: Right, I didn't think
- 23 you were.
- 24 THE WITNESS: Yeah.
- JUDGE STRICKLER: So when you talk about

- 1 avoiding the confusion, whose confusion are you
- 2 talking about?
- 3 THE WITNESS: I am referring to the
- 4 confusion, you know, I've read a lot of reports that
- 5 have shown the confusion of the people who receive
- 6 the royalties, right, so the songwriters, where they
- 7 are uncertain about, you know, they see that they
- 8 have a large demand for their songs that they have
- 9 written on these services, but then the royalty
- 10 payments that they receive seem confusing to them.
- 11 Right?
- 12 JUDGE STRICKLER: So you are talking
- 13 about songwriters who are confused?
- 14 THE WITNESS: Yes.
- JUDGE STRICKLER: People whose expertise,
- 16 as far as you understand it, is in song writing.
- 17 THE WITNESS: Right. Exactly.
- 18 JUDGE STRICKLER: So you are recommending
- 19 to us that we should set a rate that is sufficient
- 20 to avoid the confusion engendered in people who
- 21 write songs?
- THE WITNESS: Yes.
- JUDGE STRICKLER: Okay. Thank you.
- 24 BY MS. SCHMITT:
- Q. So, Professor, could you describe what is

- 1 shown on this slide in front of you which was taken
- 2 from your direct report?
- A. Sure. So this, as the title says, is
- 4 Recorded Music Revenues By Distribution. What this
- 5 chart demonstrates is that since 1995 we have seen a
- 6 decline, well, an increase briefly and then a
- 7 decline in physical distribution over time, until
- 8 about -- until 2015 where this chart ends.
- 9 Since 2003 we have seen an increase in
- 10 digital downloads, until about 2012 or 2013 where we
- 11 see a decline represented on this chart.
- 12 But during that time, and particularly
- 13 since 2011, we see an increase in interactive
- 14 streaming. All right. So while digital downloads
- 15 was sort of starting to decrease, interactive
- 16 streaming was starting to increase, which could
- 17 support this notion that interactive streaming and
- 18 downloads are substituting for one another, or
- 19 streaming is substituting for digital downloads.
- Q. And do you have an opinion as to whether
- 21 streaming, interactive streaming is a substitute for
- 22 downloads?
- 23 A. Yes, I believe -- I believe it is.
- 24 O. Is the idea that interactive streaming is
- 25 a substitute for downloads supported by academic

- 1 research?
- 2 A. Yes, it is.
- 3 O. And does the music industry generally
- 4 view interactive streaming as a substitute for
- 5 digital downloads?
- 6 A. Yes.
- 7 Q. And do you think interactive streams and
- 8 downloads are similar?
- 9 A. Yes, absolutely. They are similar in a
- 10 few different ways. The main one is that we can
- 11 listen to, with both digital downloads and
- 12 interactive streaming, we can listen to whatever
- 13 song we like to at whatever time we would like to.
- Q. And with downloads do you -- does a user
- 15 typically see video content?
- 16 A. No, they do not.
- 17 O. And what about with interactive
- 18 streaming?
- 19 A. With interactive streaming neither,
- 20 right. So they are similar in that way as well.
- Q. And in your opinion what is the state of
- 22 digital downloads -- excuse me, let me restate that.
- 23 In your opinion what is the state of the
- 24 digital download market today?
- 25 A. I think we can see from this chart that

- 1 it is still robust. The digital download market is
- 2 still robust. There is \$3 billion in sales. And we
- 3 still have people who are very interested in owning
- 4 permanent downloads of what they -- of the music
- 5 library.
- 6 O. Has the number of services that offer
- 7 interactive streaming in the U.S. changed since
- 8 2008?
- 9 A. Yes.
- 10 Q. And did you prepare a slide that
- 11 illustrates that?
- 12 A. Yes, I did.
- 0. So turning to Apple Demonstrative 13,
- 14 could you describe what is on the screen, please?
- 15 A. Sure. So this is exactly what you asked
- 16 me about. So since -- this shows that since 2011
- 17 several of the prominent digital streaming, on-line
- 18 music streaming sites have come into the market,
- 19 have entered into the market.
- 20 So Spotify, Google Music, Xbox, Napster,
- 21 TIDAL and Groove, Apple Music, they've all entered
- 22 the market during this time period.
- Q. And if I could direct your attention to
- 24 the next slide on the screen, which incorporates a
- 25 demonstrative slide that the Copyright Owners used

- 1 earlier in this proceeding, can you describe what
- 2 this slide indicates to you?
- 3 A. Sure. So this also represents some of
- 4 the entrants into the digital streaming market,
- 5 on-line streaming market. At the same time it also
- 6 shows the increase in interactive streaming
- 7 particularly since 2011. We see that interactive
- 8 streaming has become quite a large -- is quite --
- 9 there is a large number of total streams that are
- 10 currently happening and this has grown over time.
- 11 And in particular, when we look at this
- 12 change from 2008 to 2011 to now, we see that in 2008
- 13 there is barely any streams, barely any streams
- 14 existed, whereas today it looks like a pretty strong
- 15 market.
- 16 Q. I would like to discuss your views on how
- 17 the interactive streaming services have fared since
- 18 entering the market.
- 19 Has the number of paid subscribers to
- 20 interactive streaming services increased in the U.S.
- 21 since 2008?
- 22 A. Yes.
- Q. Okay. And I would like to show you the
- 24 next slide that you prepared, Apple Demonstrative
- 25 15, which reflects a graph taken from your direct

- 1 written testimony.
- 2 Can you describe what this graph
- 3 illustrates?
- 4 A. Sure. This graph shows the paid
- 5 subscriptions to streaming services. It shows that
- 6 from 2011 to 2015, which are actual numbers from the
- 7 RIAA, that paid subscriptions have an increasing
- 8 trend over time.
- The second line, which is the red line,
- 10 shows -- is a forecast from Cowen and Company which
- 11 shows that they expect that this trend to continue
- 12 into the future, and they project this out to 2021.
- 13 Q. In your opinion is it necessary to
- 14 maintain a revenue-based or subscriber-based rate
- 15 structure for the interactive streaming services
- 16 industry to continue to grow?
- 17 A. No.
- 18 Q. Do you think it would be difficult for
- 19 interactive streaming services to now switch to a
- 20 per-play rate structure?
- A. No, not at all.
- 22 O. Why is that?
- 23 A. Yeah, they -- well, first of all, this
- 24 has sort of been the approach that they have been
- 25 using over time, with other types of consumption,

- 1 physical distribution and digital downloads. It has
- 2 been a per-play rate.
- 3 And also this is data that they already
- 4 collect, the streaming services already collect.
- 5 JUDGE STRICKLER: You said they use a
- 6 per-play rate, excuse me, a per-play rate in other
- 7 areas.
- 8 THE WITNESS: Per unit rate. Excuse me.
- 9 JUDGE STRICKLER: Per unit. That wasn't
- 10 my question. In other areas, you said, plural. And
- 11 then you made reference to downloads.
- 12 THE WITNESS: And physical distribution.
- 13 JUDGE STRICKLER: And physical
- 14 distribution. Were those the only areas you were
- 15 intending to mean when you said they have done it in
- 16 other areas?
- 17 THE WITNESS: Yes. Yes, I believe so,
- 18 physical distribution and digital downloads.
- 19 JUDGE FEDER: So by they -- I'm sorry.
- 20 JUDGE STRICKLER: So those weren't by way
- 21 of example, that was by way of exhausting the
- 22 category of other areas where they do it on a --
- 23 where they pay on a per-play rate basis?
- 24 THE WITNESS: I can't -- off the top of
- 25 my head I can't think of other areas where they do

- 1 have a per-unit basis.
- JUDGE STRICKLER: Per unit, right.
- 3 THE WITNESS: Yeah. So per unit is what
- 4 I meant, so physical distribution and digital
- 5 download, yes.
- JUDGE STRICKLER: Thank you.
- JUDGE FEDER: So by they, you are not
- 8 referring specifically to interactive streaming
- 9 services?
- 10 THE WITNESS: No.
- JUDGE FEDER: You are referring to
- 12 distributors in the music industry?
- THE WITNESS: As a whole, yeah. Sorry.
- 14 My apologies. So for interactive streaming
- 15 services, they are -- they would not be -- so I
- 16 think the industry as a whole could adapt to
- 17 per-play rate because a per-unit rate structure is
- 18 similar to that.
- 19 In terms of interactive streaming
- 20 services, which I think is what your question was,
- 21 the per-play rate is something that is easy to adapt
- 22 to because they collect this data already.
- 23 They know the number of streams that
- 24 happen on the site. Right now they put it into a
- 25 more difficult formula but it could be put into a

- 1 simpler formula.
- JUDGE STRICKLER: Just so it is clear
- 3 then, when you say it is easy for the streaming
- 4 services to adapt to it, it would be easy to measure
- 5 it?
- 6 THE WITNESS: Right.
- JUDGE STRICKLER: You are not saying in
- 8 this testimony that you just gave that it would be
- 9 easy for them to thrive with it? You may be saying
- 10 that later on, but your point now is that it is easy
- 11 technically to calculate the rate?
- 12 THE WITNESS: Exactly. It is easy to
- 13 calculate the -- well, to implement a new rate
- 14 structure that's a per-play rate structure.
- 15 JUDGE STRICKLER: Thank you.
- 16 THE WITNESS: Yes, yes.
- 17 BY MS. SCHMITT:
- 18 Q. And just to be clear because I think
- 19 there was some confusion about this, the "they" in
- 20 the question. Let me phrase it another way.
- 21 Do you think a per-play rate is a
- 22 traditional approach or a non-traditional approach
- 23 in the music industry generally?
- A. Right. So in the music industry as a
- 25 whole it is a traditional approach as I -- as I

- 1 mentioned before, that it is something that we're
- 2 used to because we're used to consuming things and
- 3 paying for things by the unit.
- 4 JUDGE STRICKLER: Is a percentage of
- 5 revenue rate also a traditional way of paying for
- 6 music in the music industry?
- 7 THE WITNESS: Not -- not to the best of
- 8 my knowledge, no. I mean, with CD -- with physical
- 9 distribution and digital downloads, it is really a
- 10 per unit.
- 11 JUDGE STRICKLER: How about with regard
- 12 to sound recordings for interactive streaming?
- 13 THE WITNESS: Right, so I would consider
- 14 interactive streaming not as traditional as physical
- 15 distribution and digital downloads.
- 16 JUDGE STRICKLER: So are you saying that
- 17 the percentage of revenue is prevalent with regard
- 18 to the rates that are paid for sound recording
- 19 rights by interactive streaming, that that's just
- 20 not something that you would pigeonhole within the
- 21 traditional category?
- 22 THE WITNESS: Right. So it is what they
- 23 do with non-interactive streaming, yes, it is not
- 24 something that, you know, history.
- Digital downloads, cassettes, yeah, and

- 1 physical distribution have been, historically have
- 2 been around for much longer than non-interactive
- 3 streaming and interactive streaming.
- JUDGE STRICKLER: Thank you.
- 5 BY MS. SCHMITT:
- 6 O. Now, turning your attention to the
- 7 Copyright Owners, namely, the publishers and the
- 8 songwriters, has the way they have earned revenue
- 9 from on-line music distribution changed since 2008?
- 10 A. Sorry, could you say that one more time?
- Q. Sure. Has the way they have -- "they"
- 12 meaning the songwriters and publishers -- has the
- 13 way they have earned revenue from on-line music
- 14 distribution changed since 2008?
- 15 A. Yes, it has.
- 16 O. And are they now looking to interactive
- 17 streaming more for compensation than they did in
- 18 2008?
- 19 A. Yes, they are.
- Q. And as part of your work, have you done
- 21 research regarding songwriters' opinions about the
- 22 current rate structure for interactive streaming?
- 23 A. Yes. So I think I mentioned this a bit
- 24 earlier, but, yeah, a lot of -- many of the articles
- 25 that I have read, and sort of being involved in the

- 1 music industry, has shown their dissatisfaction with
- 2 the uncertainty associated with the rates, yes.
- Q. And have you prepared a slide sort of
- 4 illustrating that, those points?
- 5 A. Yes, I have.
- 6 Q. So turning to the next slide on this
- 7 screen, Apple Demonstrative 16, can you describe
- 8 what this depicts?
- 9 A. Sure. These are, I think, two of the
- 10 sort of prevalent complaints of the songwriters that
- 11 I have seen. So lack of transparency and too much
- 12 variability.
- So in terms of lack of transparency, it
- 14 is -- it is sort of, as I said, they know that their
- 15 song had X number of streams but it is not quite
- 16 clear how that was translated into the royalty
- 17 payment that they get in the mail. Right? So this
- 18 is something that demonstrates this lack of
- 19 transparency.
- In terms of variability, there have also
- 21 been reports that sort of demonstrate that, you
- 22 know, you can -- a songwriter can have their song
- 23 played X number of times -- or the same number of
- 24 times across two different months and get different
- 25 royalty payments. Right? So -- or across different

- 1 services they get different royalty payments.
- 2 So that's -- that variability and
- 3 transparency are sort of causing them confusion that
- 4 T mentioned earlier.
- 5 Q. Next let's turn to Apple's particular
- 6 per-play rate, which is an all-in rate of .00091 for
- 7 non-fraudulent interactive streams of 30 seconds or
- 8 longer.
- 9 A. Sure.
- 10 Q. Turning to the next slide, which is -- or
- 11 back to a slide that we saw earlier with Mr. Dorn,
- 12 can you describe what is shown here, please?
- 13 A. Sure. So this takes the digital download
- 14 rate of .091 dollars per download, multiplies it by
- 15 the conversion ratio, from downloads to streams,
- 16 that Apple uses, which results in a .0091 per-stream
- 17 rate.
- Q. And do you have an understanding of why
- 19 it was divided by 100?
- 20 A. Yes. So there were a variety of industry
- 21 benchmarks that were looked at and academic
- 22 benchmarks that were looked at that shows that the
- 23 substitution between downloads and streams could be
- 24 between 1 and 100 and 1 and 150, yes.
- JUDGE STRICKLER: If it was 1 and 100 and

- 1 1 and 150, why did you -- do you opine that the
- 2 1-to-100 is the appropriate rate?
- 3 THE WITNESS: It is the rate that sort of
- 4 is on the more conservative end. And so it affords
- 5 songwriters a better return, a better royalty
- 6 payment. So, so it is a conservative side of that.
- 7 JUDGE STRICKLER: Better for them and
- 8 worse for the Services. The Services would do
- 9 better at the 100 --
- 10 THE WITNESS: They would pay a lower
- 11 royalty rate at a 150, yes.
- 12 JUDGE STRICKLER: So why would you as an
- 13 expert say it is better to be favoring the Copyright
- 14 Owners as opposed to the Services?
- 15 THE WITNESS: So it is just -- it is a
- 16 rate that has actually been -- so .091 is close to,
- 17 from what I know, the rate that is currently being
- 18 paid. So it is something that the Services are used
- 19 to paying.
- 20 It is also -- so the ratios, the
- 21 benchmarks that were looked at range between 100 and
- 22 150. And so it is something that exists in the
- 23 industry. And it is the Copyright Owners, I mean,
- 24 they do deserve a fair return and that's one of the
- 25 objectives of the copyright part.

- JUDGE STRICKLER: The 100 came out of a
- 2 British conversion. Did you do any investigation or
- 3 analysis to see whether the conversion ratio in
- 4 Britain was the same or should be the same as the
- 5 conversion ratio in the United States?
- 6 THE WITNESS: I didn't look specifically
- 7 at -- I didn't do any analysis comparing the two
- 8 markets, but the U.K. benchmark, that benchmark, the
- 9 Official Charts Company benchmark, that's a
- 10 well-respected organization, very similar to the
- 11 Billboard charts, so yeah.
- 12 JUDGE STRICKLER: The witness just before
- 13 you, I believe, Mr. Dorn, testified that Official
- 14 Charts just changed their ratio to 150 as well.
- 15 THE WITNESS: Right.
- 16 JUDGE STRICKLER: Does that change your
- 17 opinion at all?
- 18 THE WITNESS: No, it doesn't.
- 19 JUDGE STRICKLER: Why not?
- THE WITNESS: Again, the ratios are, you
- 21 know, there is a range of ratios from 100 to 150. I
- 22 think we don't have a lot of -- or I didn't have a
- 23 lot of visibility into the complete formula that
- 24 goes into calculating these things.
- 25 And 100, again, is on the conservative

- 1 side of this, which affords the Copyright Owners a
- 2 fair return. Right?
- 3 So I think part of this was ensuring that
- 4 both the copyrighters get a fair -- the Copyright
- 5 Owners get a fair return as well as the streaming
- 6 services aren't paying, you know, it is fair to the
- 7 streaming services as well. So this was what feels
- 8 sort of like a good balance between the two.
- JUDGE STRICKLER: Thank you.
- 10 MS. SCHMITT: And, Your Honor, just to
- 11 clarify, we're going to talk about the benchmarks in
- 12 detail, and there are additional ones, other than
- 13 the two that Mr. Dorn testified about that the
- 14 witness will talk about.
- JUDGE STRICKLER: Thank you.
- 16 BY MS. SCHMITT:
- 17 Q. Now, I would like to focus on the first
- 18 box of the slide, which indicates that Apple's rate
- 19 is derived on the 9.1 cent rate for digital
- 20 download.
- Do you believe it is appropriate to use a
- 22 rate for digital downloads to derive a rate for a
- 23 digital interactive streaming?
- 24 A. Yes, I do.
- Q. And why do you think that?

- 1 A. As I said before, well, first of all, the
- 2 digital download rate is something that was agreed
- 3 upon. It was subject to the four 401 -- or four
- 4 801(b) factors. And it has been not contested by
- 5 any of the parties involved in this. So that's a
- 6 good starting place, a fair starting place for the
- 7 calculation.
- 8 In addition, digital downloads and
- 9 interactive streams are similar means of
- 10 consumption, as we have talked about before. They
- 11 both allow you to, or allow a user to consume or
- 12 listen to whatever song they want to at whatever
- 13 time they want to.
- Q. And I think, as you said before, it would
- 15 be your opinion that they are substitutes for each
- 16 other?
- 17 A. They are substitutes, yes, I do believe
- 18 that.
- 19 Q. Now, we haven't yet heard from Jeffrey
- 20 Eisenach, who is one of the Copyright Owners'
- 21 experts.
- 22 Are you aware that he made some
- 23 statements in his rebuttal testimony criticizing
- 24 you?
- 25 A. Yes, I am.

- 1 O. And you should have a copy of his written
- 2 rebuttal testimony in the binder. And turning to
- 3 paragraph 43, he states that "the 9.1 cent per track
- 4 penny rate does not reflect market prices for the
- 5 reasons discussed above relating to the 2008
- 6 settlement, the 2012 settlement, and the Section 115
- 7 direct licenses. It is the result not mainly of
- 8 forces but of regulatory fiat."
- 9 Do you have an opinion about that
- 10 statement?
- 11 A. I don't think it particularly makes sense
- 12 in this context. The idea here is to set a rate
- 13 that is consistent with the four 801(b) factors, and
- 14 being a market rate is not, is not one of those
- 15 factors.
- 16 Q. Further, in paragraph 46, Dr. Eisenach
- 17 states that the 24 cent rate for ringtones is "more
- 18 closely tied to market forces because it was based
- 19 on agreements negotiated in the free market before
- 20 it was clear whether or not ringtones were eligible
- 21 for the Section 115 license."
- Do you have an opinion about that
- 23 statement?
- 24 A. Sure. Again, the market rate is not
- 25 something that is being considered in the four

- 1 801(b) factors, and ringtones as a benchmark, sort
- 2 of, for this seems a bit bizarre as well.
- 3 Q. So just to be clear --
- JUDGE STRICKLER: I'm sorry, did you say
- 5 it seems bizarre?
- 6 THE WITNESS: Bizarre, yeah.
- 7 JUDGE STRICKLER: Why bizarre?
- 8 THE WITNESS: Because, I mean, comparing,
- 9 as I said, comparing digital downloads to
- 10 interactive streaming seems -- it is the same sort
- 11 of consumption experience. I don't listen to my
- 12 ringtone to consume music. I'm not sure many people
- 13 do.
- 14 So this consumption experience is very
- 15 different between ringtones and interactive
- 16 streaming.
- 17 BY MS. SCHMITT:
- 18 O. So to be clear, do you think it would
- 19 have been appropriate to use the 24 cent rate for
- 20 ringtones to derive a rate for interactive
- 21 streaming?
- 22 A. No, I do not.
- Q. Now, I would like to focus on the second
- 24 box in this equation, which indicates that Apple's
- 25 rate is derived by dividing the 9.1 cent rate for

- 1 digital downloads by 100.
- 2 Again, do you think it is appropriate to
- 3 divide by 100 in this situation?
- 4 A. I do.
- 5 Q. Now, you mentioned earlier industry and
- 6 academic benchmarks, and we will discuss those. But
- 7 first, in general -- and, again, what was the range
- 8 that you found with these benchmarks?
- 9 A. So the range was between 1-to-100 and
- 10 1-to-150.
- 11 Q. Okay.
- 12 JUDGE STRICKLER: When you say that is
- 13 the range, that is the range -- aside from what
- 14 counsel may have asked you about one particular
- 15 academic study that we have heard about already, the
- 16 range consists of two end points, 100 and 150?
- 17 THE WITNESS: Yeah, between, yeah,
- 18 between 100, 150, and then, as you said, the
- 19 academic study, which is at 137.
- JUDGE STRICKLER: But those, the range,
- 21 you have the academic study which we will get to,
- 22 the 100 and the 150, those are the only three data
- 23 points, right?
- 24 THE WITNESS: Right. But there are
- 25 multiple -- there are multiple industry benchmarks

- 1 that have a 1-to-100 and have moved to 1-to-150. So
- 2 it is not just two.
- JUDGE STRICKLER: You say there is more
- 4 than one 1-to-100 ratio?
- 5 THE WITNESS: Yes. At one point another
- 6 chart used 1-to-100 as well.
- JUDGE STRICKLER: I will let counsel ask
- 8 you about that.
- 9 THE WITNESS: Yeah, sure.
- 10 MS. SCHMITT: Thank you.
- 11 BY MS. SCHMITT:
- 12 Q. So before we get to the specific
- 13 examples, I would just like to ask you about the
- 14 purpose for these industry benchmarks.
- 15 A. Sure.
- 16 Q. Why were they created?
- 17 A. Right. So the industry benchmarks, to be
- 18 clear, to convert streams to downloads were created
- 19 in order to be consistent with the measurement that
- 20 was occurring previously in the industry. Right?
- So there was always an easy way, as we
- 22 discussed earlier, to sort of measure sales
- 23 consumption. Right? So you can measure X number of
- 24 CDs were sold or X number of digital downloads were
- 25 downloaded. And so you could really measure the

- 1 sales and, therefore, have that as a proxy for
- 2 popularity.
- When streaming came about, this is
- 4 another sort of measure of trying to make it fit
- 5 with these charts. This new way of consuming was
- 6 something that the industry really had to struggle
- 7 with and figure out how do we say people are
- 8 consuming from CDs and digital downloads, how do we
- 9 make interactive streaming consumption fit in with
- 10 that, and so that's where this conversion ratio
- 11 comes in.
- 12 O. And they were using them for their sales
- 13 charts?
- 14 A. For their sales charts, yeah. So as we
- 15 will discuss, Billboard and the U.K. use it for
- 16 their sales charts. They use it for certifying
- 17 Platinum and Gold Albums, things like that. So all
- 18 to measure sort of fails as a measure of popularity.
- 19 JUDGE FEDER: Excuse me. For purposes of
- 20 Gold and Platinum Albums, "they" being --
- 21 THE WITNESS: Oh, the -- the RIAA who
- 22 does the certification, I think.
- JUDGE FEDER: Thank you.
- 24 THE WITNESS: Sure.
- 25 BY MS. SCHMITT:

- 1 O. In your opinion are those industry
- 2 benchmarks relevant to these proceedings?
- 3 A. They are relevant to these proceedings,
- 4 yes.
- 5 Q. In your opinion they are relevant?
- 6 A. Yes.
- 7 Q. And why do you think that?
- 8 A. They are independent -- I mean, they were
- 9 independently-determined benchmarks that feed into
- 10 sort of what were the same thing that we're trying
- 11 to do today. Right?
- So we're trying to come up with this way
- 13 to convert sort of a rate that we know, that we
- 14 trust, that makes sense, into a per-stream rate for
- 15 digital downloads. So they were struggling with the
- 16 same questions that we were.
- 17 And so using those
- 18 independently-determined benchmarks sort of makes
- 19 sense.
- Q. Okay. So let's first discuss these --
- 21 let's get into the industry benchmarks.
- 22 A. Sure.
- Q. I will show you Apple Demonstrative 17.
- 24 Can you describe what is shown on this screen,
- 25 please?

- 1 A. Sure. So this is representing sort of
- 2 the benchmark that Billboard uses for their charts.
- 3 So one download is equivalent to 150 streams. And
- 4 this, the Billboard charts are based on Nielsen
- 5 Soundscan data.
- 6 O. And what is Billboard?
- 7 A. Billboard is a media entertainment
- 8 company, it's very well-known in the industry, and
- 9 it does the charting for the music industry.
- 10 Q. And are you aware of the Billboard 200
- 11 chart?
- 12 A. I am, yes.
- 0. And what is that?
- 14 A. That's a weekly chart of the top 200
- 15 albums, and as measured by sales.
- 16 O. So it is a sales chart?
- 17 A. It is a sales chart, yes.
- Q. And what types of sales does Billboard
- 19 consider in creating its Billboard 200 chart?
- 20 A. So it considers, in terms of sales, it
- 21 considers physical distribution and digital
- 22 downloads. It has also recently added interactive
- 23 streaming.
- 24 O. When did Billboard start considering
- 25 streaming or interactive streaming as part of its

- 1 Billboard 200 chart?
- 2 A. 2014.
- O. I would like for you to look at a tab in
- 4 your binder marked Apple Trial Exhibit 1441, which
- 5 was introduced into evidence earlier. Tell me when
- 6 you have it, Professor.
- 7 A. Sure. Yes, I have it.
- 8 Q. And you recognize that document, correct?
- 9 A. Yes, I do.
- 10 Q. Did you prepare a slide with some
- 11 excerpted language from this?
- 12 A. I did, yes.
- 13 Q. So turning to --
- 14 JUDGE STRICKLER: It is in the white
- 15 binder?
- MS. SCHMITT: It should be in the first
- 17 binder. I'm sorry, it should be Tab 1441.
- JUDGE STRICKLER: Thank you.
- 19 BY MS. SCHMITT:
- 20 O. So, Professor, could you describe what is
- 21 shown on the screen here?
- 22 A. Sure. This is an article from Billboard
- 23 which was part of my written direct testimony. It
- 24 is dated November 19th, 2014. And it is -- the
- 25 title is Billboard 200 Makeover, Album Chart to

- 1 Incorporate Streams and Track Sales.
- 2 And so that's exactly what it is talking
- 3 about is the incorporation of the streams to the
- 4 Billboard 200.
- 5 Q. And could you describe the language
- 6 excerpted on the screen, please?
- 7 A. Sure. So as you can see, the updated
- 8 Billboard 200 will utilize accepted industry
- 9 benchmarks for digital and streaming data, equating
- 10 10 digital track sales from an album to one
- 11 equivalent album sale, and 1500 song streams from an
- 12 album to one equivalent album sale.
- So, in other words, they are equating one
- 14 single sale, one digital download, to 150 streams.
- 15 Then it says: "Adjustments for the Billboard 200
- 16 took into account feedback from key executives in
- 17 the music industry." So it tells us a little bit
- 18 about how they came up with this.
- 19 Q. Do you know who provides the data to
- 20 Billboard for its charts?
- 21 A. Nielsen Soundscan.
- 22 O. And what is Nielsen Soundscan?
- 23 A. Nielsen Soundscan is exactly -- it
- 24 collects data on sales and streams and it is used
- 25 widely in the industry.

- 1 O. And do you find or do you consider their
- 2 data reliable?
- A. Yes, absolutely. I use it in my own
- 4 research, actually.
- 5 Q. And I would like to show you the next
- 6 slide you prepared. Can you describe what is shown
- 7 on Apple Demonstrative 19, please.
- 8 A. Sure. So this is taking the per-download
- 9 rate of 0.091, multiplying it by the conversion
- 10 ratio that Billboard uses of 1-to-150 to arrive at a
- 11 per-stream rate of .00061.
- 12 Q. And other than Billboard, are you aware
- 13 of any other industry players that use a metric of 1
- 14 download to 150 streams?
- 15 A. Yes.
- 16 JUDGE STRICKLER: Before we get into
- 17 that, let's stick with Billboard for a second.
- 18 Paragraph 85 of your written direct testimony, on
- 19 page 45. Are you there?
- THE WITNESS: Yes.
- 21 JUDGE STRICKLER: In the last sentence
- 22 that starts on page 45 and continues on to page 46
- 23 you wrote: "In 2013, however, Billboard used the
- 24 equivalent of one track and 200 streams" because --
- 25 and it gives reasons why, but let me stop there.

- We're setting rates for the 2018 to 2022
- 2 period. And you just testified that you found -- we
- 3 can go back to the slide immediately before this,
- 4 the one that was just up there, there we go -- that
- 5 the Billboard 200 utilizes accepted industry
- 6 benchmarks.
- 7 So would you agree that Billboard now
- 8 uses a 1-to-200 and that that is the accepted
- 9 industry benchmark if you are using the Billboard
- 10 benchmark?
- 11 THE WITNESS: So Billboard actually
- 12 started doing this in 2014. And the benchmark they
- 13 have always used is 1-to-150. This was a
- 14 calculation that was done in an article that
- 15 indicated that using a particular methodology it
- 16 would have been 1-to-200 streams.
- 17 JUDGE STRICKLER: So which is their
- 18 current conversion?
- 19 THE WITNESS: So the current conversion
- 20 is 1-to-150.
- JUDGE STRICKLER: The current conversion
- 22 is 1-to-150.
- 23 BY MS. SCHMITT:
- O. To clarify -- and, Your Honor, if I
- 25 may -- Professor, did Billboard ever use a metric

- 1 for its chart purposes of 1-to-200?
- 2 A. No, they didn't. They have always used
- 3 1-to-150.
- Q. And this article or this statement you
- 5 made was based on an article from 2014. Is that
- 6 correct?
- 7 A. Yes.
- 8 O. Okay. But to be clear, Billboard never
- 9 actually used, have used a metric of 1-to-200?
- 10 A. No, they have not.
- 11 Q. In 2014 or today?
- 12 A. No. Exactly.
- Q. And when I say "use," I mean for purposes
- 14 of its charts.
- 15 A. Of its charts, right.
- 16 Q. So I would like to draw your attention to
- 17 the next demonstrative that you prepared, which we
- 18 marked Apple Demonstrative 20.
- 19 Can you describe what's on the screen
- 20 here, please?
- 21 A. Sure. This shows the conversion ratio
- 22 that the RIAA uses of 1-to-150. And they use this
- 23 conversion ratio when they are calculating their
- 24 Gold and Platinum Record certifications.
- 25 Q. And on the next slide, Apple

- 1 Demonstrative 21, can you describe what this
- 2 illustrates?
- A. Sure. This illustrates the 0.091 per
- 4 download rate applying the conversion ratio of
- 5 1-to-150 results in a .00061 per stream.
- 6 Q. And if you look behind the Apple chart,
- 7 the tab in your binder marked Apple Trial Exhibit
- 8 1469, and let me know when you have it.
- 9 A. I have it.
- 10 Q. Do you recognize that document?
- 11 A. I do. It was part of my written direct
- 12 testimony. It is an article dated May 10th, 2013
- 13 and it describes how -- RIAA adding streaming to the
- 14 Digital Gold and Platinum Certification.
- MS. SCHMITT: Your Honors, at this point
- 16 I would like to offer Apple Exhibit 1469 into
- 17 evidence.
- 18 MR. SCIBILIA: No objection.
- JUDGE BARNETT: 1469 is admitted.
- 20 (Apple Exhibit Number 1469 was marked and
- 21 received into evidence.)
- 22 BY MS. SCHMITT:
- 23 Q. Professor, did you prepare a slide with
- 24 some -- highlighting some language from this
- 25 article?

- 1 A. I did, yes.
- Q. So turning to Apple Demonstrative 22,
- 3 could you please explain?
- A. Sure. So this is some language from this
- 5 article and the new formulation, which apparently
- 6 took a year to work out, a 100 streams of a song
- 7 will be roughly equal to one download.
- Q. I'm sorry, just to be clear, when was
- 9 this statement made by the RIAA?
- 10 A. This article was from 2013.
- 11 Q. And is that when the RIAA first started
- 12 using streams in its single charts or its single
- 13 awards?
- 14 A. Yes. Exactly.
- 15 Q. But since then they have changed to
- 16 1-to-150; is that right?
- 17 A. Yes, that's correct.
- JUDGE STRICKLER: When did they change to
- 19 1-to-150?
- 20 THE WITNESS: I believe -- I actually
- 21 don't remember the exact time. I'm sorry.
- JUDGE STRICKLER: That's okay. Thank
- 23 you.
- 24 BY MS. SCHMITT:
- Q. Turning away from the RIAA, I would like

- 1 to show you another slide that you prepared, Apple
- 2 Demonstrative 23. Can you describe what this
- 3 illustrates?
- A. Sure. This is the U.K. Official Charts
- 5 Company. This is a benchmark that they used to use
- 6 of 1 download to 100 streams.
- 7 Q. And, again, just to be clear, what is the
- 8 Official Charts Company?
- 9 A. Sorry, the Official Charts Company is
- 10 similar to Billboard but it is in the U.K. It is
- 11 one of the primary places that is looked to to
- 12 understand music popularity in the U.K.
- Q. And if you look in your binder again at
- 14 Apple -- at the tab marked Apple Trial Exhibit 1489,
- 15 and please let me know when you find it.
- 16 A. I have it.
- 17 Q. Do you recognize this document?
- 18 A. Yes. It was part of my written direct
- 19 testimony. It is dated June 23rd, 2014. And it is
- 20 an article that describes the inclusion of streams
- 21 into the charts in the U.K., Official Charts
- 22 Company.
- 23 MS. SCHMITT: Your Honors, at this point
- 24 I would like to offer Apple Exhibit 1489 into
- 25 evidence.

- 1 MR. SCIBILIA: No objection. 2 JUDGE BARNETT: 1489 is admitted.
- 3 (Apple Exhibit Number 1489 was marked and
- 4 received into evidence.)
- 5 JUDGE STRICKLER: I think you said, and
- 6 this goes back to sort of the previous discussions
- 7 we have had, that the 1-to-100 used to be the rate
- 8 they have?
- 9 THE WITNESS: Yes.
- 10 JUDGE STRICKLER: They now have 1-to-150?
- THE WITNESS: Yes, as of December 2016.
- 12 Exactly.
- JUDGE STRICKLER: But you, as you
- 14 testified, you stick with the 1-to-100 conversion?
- 15 THE WITNESS: Yes.
- 16 JUDGE STRICKLER: Let me put this sort of
- 17 in the form of a hypothetical. If a year ago they
- 18 had gone to the 1-to-100 -- excuse me, to the
- 19 1-to-150, would you have used the 1-to-150 instead?
- 20 THE WITNESS: Not necessarily. I mean, I
- 21 see that there is a variety of different benchmarks
- 22 and so this is something that guided sort of the
- 23 rates but, no, I wouldn't have necessarily changed
- 24 it.
- JUDGE STRICKLER: And help me out

- 1 again -- it is getting a little later in the
- 2 afternoon -- other than the Official Charts, is
- 3 there another one in the record that is 1-to-100?
- THE WITNESS: So RIAA was using 1-to-100
- 5 as well.
- 6 JUDGE STRICKLER: Was?
- 7 THE WITNESS: Was using it, yes.
- 8 JUDGE STRICKLER: It is not using it any
- 9 more?
- 10 THE WITNESS: No.
- JUDGE STRICKLER: So your 1-to-100 is
- 12 based on two industry factors that used to exist;
- 13 both of them no longer exist?
- 14 THE WITNESS: Right. So the range is
- 15 based on -- so over the last several years, this is
- 16 something that has been discussed in the industry,
- 17 and so it is a benchmark that has been used over
- 18 time. So, yeah.
- 19 JUDGE STRICKLER: But you don't have a
- 20 whole lot of benchmarks; you have three basically,
- 21 if I am understanding it correctly, RIAA, Billboard,
- 22 and the charts.
- 23 THE WITNESS: And the charts and then the
- 24 academic study, which you know.
- JUDGE STRICKLER: Right, which we haven't

- 1 gotten to yet. But with regard to the industry
- 2 standards, two of them have changed to 1-to-150 but
- 3 you are sticking with the 1-to-100?
- THE WITNESS: Again, I think 1-to-100 is
- 5 -- to go back to the objective, it results in a fair
- 6 rate for both the Copyright Owners and the streaming
- 7 services.
- JUDGE STRICKLER: I thought the fairness
- 9 came from the fact that the industry had a standard.
- 10 If the industry standard has changed, what is your
- 11 basis for still sticking with 1-to-100 as fair?
- 12 THE WITNESS: It allows the -- it still
- 13 affords the Copyright Owners, I think, a fair
- 14 return -- a good -- a return that they can be
- 15 satisfied with. It is consistent with the royalty
- 16 rates that are being paid now.
- 17 JUDGE STRICKLER: When you say "now,"
- 18 under what standard?
- 19 THE WITNESS: Under the -- under the --
- 20 so it's not -- so for the streaming services, it is
- 21 -- so I guess from the streaming services'
- 22 perspective, it will work, and from the Copyright
- 23 Owners' perspective, it will give them a fair
- 24 return.
- 25 JUDGE STRICKLER: But when you say it is

- 1 going to give them a fair return, and fairness was
- 2 based on the conversion factors, we're in the world
- 3 of tautology here, I think, because you are saying
- 4 it is fair because it is fair. And I can't figure
- 5 out at least from your testimony why the 1-to-100
- 6 remains fair if it is based on an industry standard,
- 7 and two of those data points, those limited number
- 8 of data points, have now both moved to 1-to-150.
- 9 So where, in your expert opinion, where
- 10 does the fairness come -- what is the support for
- 11 the fairness conclusion?
- 12 THE WITNESS: So I think part of the
- 13 fairness comes from -- I think part of the fairness
- 14 comes from the simplicity that is associated with
- 15 the calculation that's done. Right? So we know
- 16 that the fairness -- the fairness comes from the
- 17 digital download, part of the digital download rate.
- 18 So we take the digital download rate. We
- 19 know that has been agreed upon by the Copyright
- 20 Owners and the other parties here.
- 21 And then the 100 is sort of, as Mr. Dorn
- 22 said earlier, is a clear, is a simple sort of way to
- 23 do the calculation, and industry benchmarks have
- 24 sort of used this in the past.
- JUDGE STRICKLER: And it is clearer

- 1 because it is easier to divide by 100 in your head
- 2 than 150?
- 3 THE WITNESS: It's straightforward. It's
- 4 straightforward, yes.
- 5 JUDGE STRICKLER: And it is more
- 6 straightforward because it is easier in your head to
- 7 divide by 100 than by 150?
- 8 THE WITNESS: Sure.
- 9 JUDGE STRICKLER: Thank you.
- 10 BY MS. SCHMITT:
- 11 Q. And, Professor, in your -- in your -- is
- 12 it your opinion that the range of 100 to 150 is an
- 13 appropriate range?
- 14 A. It is an appropriate range, yes, I do.
- 15 So, yes.
- 16 Q. So if something falls within that range,
- 17 in your opinion, is that appropriate?
- 18 A. Yes. Absolutely.
- 19 Q. But in your opinion you believe -- or is
- 20 it your opinion that one, the more conservative end
- 21 of the range is fairer to the Copyright Owners?
- 22 A. Yes. I believe it gives the Copyright
- 23 Owners a good return while not compromising the
- 24 streaming services.
- JUDGE STRICKLER: Can you just keep your

- 1 voice up at the end of the sentences? It's a little
- 2 hard to hear.
- 3 THE WITNESS: Sorry.
- JUDGE STRICKLER: That's okay. Thanks.
- 5 It could be my ears and not your voice.
- 6 BY MS. SCHMITT:
- 7 Q. Sp, Professor, if I could turn you back
- 8 to Apple Demonstrative 24, which is excerpted from
- 9 the exhibit that was just admitted. Can you
- 10 describe what language is used here?
- 11 A. Sure. Again, this is a language that
- 12 described how they arrived at this -- or what their
- 13 conversion ratio is. Streaming data will be counted
- 14 towards the U.K.'s official singles chart from next
- 15 month for the first time. 100 streams will be
- 16 equivalent to one single purchase, whether download,
- 17 CD or vinyl, for chart purposes.
- 18 The 100 ratio specifically has been
- 19 agreed following extensive investigation of royalty
- 20 rates paid and sense-checked in consultation with
- 21 independent and major labels, digital retailers, and
- 22 streaming services.
- 23 So, again, this talks about how, one,
- 24 that the conversion ratio is one download to 100
- 25 streams, and a little bit of insight into how they

- 1 arrived at that.
- Q. And turning to the next slide, does this
- 3 -- can you just briefly describe what is depicted
- 4 here?
- 5 A. Sure. This applies the 1-to-100
- 6 conversion ratio that the U.K. Official Charts
- 7 Company used to the digital download rate to arrive
- 8 at a 0.00091 per-stream royalty rate.
- 9 Q. You mentioned earlier that the U.K.
- 10 charts have now switched to 150, correct?
- 11 A. Yes.
- 12 Q. Does that change your opinion on the
- 13 reasonableness of Apple's proposal?
- 14 A. No.
- Q. And are you aware of a company called
- 16 BuzzAngle Music?
- 17 A. I am.
- 18 Q. What is it?
- 19 A. It is a company similar to Nielsen
- 20 Soundscan that tracks the sales data in streaming.
- 21 Q. And do they use a metric of 1-to-150?
- 22 JUDGE STRICKLER: I think we have an
- 23 objection.
- 24 MR. SCIBILIA: Yes. BuzzAnqle Music is
- 25 nowhere mentioned in Ms. Ramaprasad's report nor any

- 1 benchmark or ratio used by BuzzAngle. It's brand
- 2 new testimony.
- JUDGE BARNETT: Ms. Schmitt?
- 4 MS. SCHMITT: It's true. It's one we
- 5 learned since that they also used us as a benchmark.
- 5 JUDGE BARNETT: Sustained.
- 7 BY MS. SCHMITT:
- Q. Do you think that the industry benchmarks
- 9 that we just discussed are reliable?
- 10 A. Yes, I do.
- 11 Q. Why is that?
- 12 JUDGE STRICKLER: The ones we have
- 13 discussed, does that include the 1-to-200?
- 14 THE WITNESS: The 1-to-200 was never used
- 15 as a -- in the industry.
- JUDGE STRICKLER: Okay.
- 17 BY MS. SCHMITT:
- 18 Q. But the industry benchmarks that we have
- 19 spoken about, ranging from 100 and now to 150, do
- 20 you find those reliable?
- 21 A. I do.
- Q. And why do you think that?
- 23 A. I mean, they are -- they are reliable
- 24 sources. Billboard, RIAA, U.K. Official Charts
- 25 Company, they are all well-known in the industry.

- 1 They are all relied upon by members of the industry
- 2 to measure the success of music from, you know, they
- 3 are relied upon by artists, music publishers, a
- 4 variety of different people in the industry as a
- 5 measure of success.
- Q. And do you have any reason to believe
- 7 that any of the entities, Billboard, RIAA, U.K.
- 8 Official Charts, have a reason to skew the ratios in
- 9 any way?
- 10 A. No, not at all. Those -- they -- no, not
- 11 at all. They did this independently. This is
- 12 something that they did for their own purposes that
- 13 can be applied here.
- 14 JUDGE STRICKLER: Well, you don't, at
- 15 least you haven't testified to how they went about
- 16 doing this. So whether they had a method for their
- 17 madness or whether it was objectively precise or
- 18 whatever reason they did it, you are not privy to
- 19 that?
- 20 THE WITNESS: I am not privy to that. So
- 21 it is independent of these proceedings, from what I
- 22 know, yeah.
- JUDGE STRICKLER: Well, you don't know
- 24 anything about that, because you don't know how it
- 25 was done? It could have been done specifically for

- 1 this proceeding for all you know?
- THE WITNESS: Okay.
- JUDGE STRICKLER: Thank you.
- 4 BY MS. SCHMITT:
- 5 Q. Well, do you have any reason to believe
- 6 that those entities are not qualified to formulate
- 7 these types of benchmarks?
- 8 A. No.
- 9 Q. And do you have any reason to believe
- 10 that these entities undertook this task arbitrarily
- 11 in any way?
- 12 A. No.
- 13 O. And as far as you are aware, were these
- 14 benchmarks created for litigation purposes?
- 15 A. As far as I'm aware, no.
- Q. And do you rely on these sources in your
- 17 academic research?
- 18 A. I do, yes.
- 19 Q. And would you have any reason to question
- 20 their validity if they appeared in any academic
- 21 papers that you were reviewing?
- A. No, not at all.
- 23 O. Are these benchmarks accepted in the
- 24 music industry?
- 25 A. Yes, from what I can see, yes, they are.

- 1 Q. And how are they -- how does the music
- 2 industry accept or rely on them?
- A. So artists, music publishers, a variety
- 4 of different members of the industry refer to these
- 5 benchmarks to -- or refer to these charts, sorry,
- 6 not these benchmarks, to tout, to promote, to market
- 7 their artists and market their songwriters.
- 8 Q. And do the Copyright Owners rely on them?
- 9 A. Yes. I think Mr. Dorn gave an example of
- 10 Drake earlier. Drake was publicized by his music
- 11 publisher when he went Platinum, Gold Or Platinum, I
- 12 don't remember now, but yes. So obviously these
- 13 certifications are valuable to music publishers.
- 14 Q. And, again, what are these -- what are
- 15 these industry benchmarks trying to measure?
- 16 A. These industry benchmarks are trying to
- 17 measure what the substitution is between downloads
- 18 and streams.
- 19 Q. Is that in terms of sales?
- 20 A. In terms of sales, yes. What amount of
- 21 streams is equivalent to one sale of a digital
- 22 download.
- 23 Q. So turning from industry benchmarks,
- 24 let's focus on the academic benchmark that you
- 25 mentioned.

- 1 A. Sure.
- Q. Can you identify the research that you
- 3 had mentioned earlier?
- 4 A. Sure. There is a paper by Luis Aguiar
- 5 and Joel Waldfogel that determines the substitution
- 6 between digital downloads and streaming.
- 7 MR. SCIBILIA: Excuse me. Just so my
- 8 silence shall not be deemed acquiescence, we have
- 9 seen this article before. We have objected to it
- 10 before. And we continue to object to it.
- JUDGE BARNETT: Thank you, Mr. Scibilia.
- 12 BY MS. SCHMITT:
- 13 Q. I would like to show you Pandora Trial
- 14 Exhibit 909, which should be in your binder.
- 15 JUDGE STRICKLER: I just want to make
- 16 sure I understand the objection. This is an
- 17 objection that it shouldn't be introduced or relied
- 18 upon for the truth of the matter asserted or that it
- 19 is not the type of thing that an expert would rely
- 20 upon in forming an opinion?
- 21 MR. SCIBILIA: My objection is that it is
- 22 a study that involves data that we have never seen,
- 23 we don't have access to, the witness doesn't have
- 24 access to, we don't know the underlying methodology,
- 25 other than what it states in the paper.

- JUDGE STRICKLER: But my question was
- 2 more technical. Are you objecting to it because it
- shouldn't be taken as something for the truth of the
- 4 matter asserted or because it is not the type of
- 5 thing upon which an expert can reasonably rely in
- 6 forming an opinion, or both or neither of those
- 7 objections?
- 8 MR. SCIBILIA: Both. And I also object
- 9 on the grounds that it does not meet the standard of
- 10 Section 351-10-C, or 10-E, I believe, for an
- 11 academic study.
- 12 JUDGE BARNETT: Your objections are noted
- 13 and overruled. Go ahead, Ms. Schmitt.
- 14 BY MS. SCHMITT:
- 15 Q. Do you recognize this document?
- 16 A. I do.
- 17 Q. Can you describe what it is?
- 18 A. Sure. It is a paper written by Louis
- 19 Aguiar and Joel Waldfogel which examines this
- 20 question of the substitution between digital
- 21 downloads and streams.
- 22 O. Directing your attention to the slide you
- 23 prepared in Apple Demonstrative 26, can you describe
- 24 what this depicts?
- 25 A. Sure. The results of this paper indicate

- 1 that 137 streams can substitute for one digital
- 2 download.
- 3 O. And who were the researchers that did
- 4 this study?
- 5 A. Louis Aguiar and Joel Waldfogel.
- 6 Q. Do you know who Joel Waldfogel is?
- 7 A. I do.
- 8 Q. Who is he?
- 9 A. He is a professor at the University of
- 10 Minnesota in economics and he is a well-respected
- 11 academic.
- 12 Q. Do you have an opinion -- is that your
- 13 opinion?
- 14 A. I believe he is a well-respected
- 15 academic, yes. I have -- I have seen his work and
- 16 his presentations.
- 17 Q. So you have read other papers he has
- 18 written?
- 19 A. I have. He studies the digital music
- 20 industry and digital goods in general. So it is
- 21 relevant to me.
- 22 JUDGE STRICKLER: Do you as an expert
- 23 rely upon the articles that are published by other
- 24 academics whose previous work you believe is
- 25 reliable?

- 1 THE WITNESS: Yes, I do.
- JUDGE STRICKLER: When you do that, in
- 3 your ordinary course as an expert, do you look -- do
- 4 you research the underlying data and methodologies
- 5 that are utilized by the expert?
- 6 THE WITNESS: Yes.
- 7 JUDGE STRICKLER: Do you try to replicate
- 8 what they have done?
- 9 THE WITNESS: Often. Not always. But
- 10 often that is part of the exercise, yes.
- 11 JUDGE STRICKLER: Do you find it
- 12 necessary to be able to actually replicate what they
- 13 have done in order to rely on it as an expert?
- 14 THE WITNESS: No.
- 15 JUDGE STRICKLER: Did you replicate what
- 16 Waldfogel and Aguiar did in this particular
- 17 instance?
- 18 THE WITNESS: No, I did not. But I know
- 19 the context very well. You know the data. When you
- 20 work in this area, you know that data very well.
- 21 You know what they can and can't do with it.
- JUDGE STRICKLER: Thank you.
- 23 THE WITNESS: Sure.
- 24 BY MS. SCHMITT:
- 25 Q. So, again, do you consider Professor

- 1 Waldfogel knowledgeable in this type of research --
- 2 A. Yes.
- Q. -- or well qualified to conduct this type
- 4 of research?
- 5 A. Absolutely, yes.
- Q. And do you know whether he is an expert
- 7 in this proceeding?
- 8 A. I believe he was named as an expert by
- 9 the Copyright Owners but never submitted written
- 10 testimony.
- 11 Q. So turning your attention to the next
- 12 slide, can you describe what is illustrated here?
- 13 A. Sure. So these are excerpts from the
- 14 paper. In particular 137 Spotify streams appear to
- 15 reduce track sales by one unit. We find that
- 16 Spotify use displaces permanent downloads. In
- 17 particular, 137 Spotify streams appear to reduce
- 18 track sales by 1 unit. Our best estimate indicates
- 19 that an additional 137 streams displaces one track
- 20 sale.
- Q. What, if anything, does this paper
- 22 suggest to you about the substitution between
- 23 downloads and interactive streams?
- A. The results of this paper indicate that
- 25 there is a substitution and that the ratio is

- 1 1-to-137.
- Q. Now, do you know if this research was
- 3 presented anywhere?
- A. Yes. I actually saw a presentation of an
- 5 early version of this at the National Bureau of
- 6 Economics Research, Conference on IT --
- 7 JUDGE STRICKLER: When you say you saw
- 8 it, you were actually there at the presentation?
- 9 THE WITNESS: Yes, I was.
- 10 BY MS. SCHMITT:
- 11 Q. And do you know if it was presented
- 12 anywhere else?
- 13 A. Yes. Well, now it is a paper or working
- 14 paper in the JRC. It is a JRC technical report for
- 15 the European Commission.
- 16 Q. And do you consider this research
- 17 reliable?
- 18 A. I do.
- 19 Q. Okay. Turning to the next slide, Apple
- 20 Demonstrative 28, can you describe what is
- 21 referenced here or shown here?
- 22 A. Sure. Taking the 0.091 per-download
- 23 rates and using the 1-to-137 conversion ratio that
- 24 Aquiar and Waldfogel find results in a per-stream
- 25 royalty rate of .00066.

- 1 Q. Now, we haven't yet heard from Marc
- 2 Rysman, another one of the Copyright Owners'
- 3 experts.
- 4 Are you aware that he made some
- 5 statements criticizing you in his written rebuttal
- 6 testimony?
- 7 A. Yes.
- 8 O. I would like for you to address
- 9 Dr. Rysman's criticisms of your reliance on this
- 10 study.
- 11 A. Sure.
- 12 Q. So turn to Dr. Rysman's rebuttal.
- 13 Starting in paragraph 97, he argues first that your
- 14 reliance on this study is misplaced because the
- 15 researchers only look at the top 50 songs on Spotify
- 16 and this is not proper for an aggregate level
- 17 analysis.
- 18 Do you have an opinion on that statement
- 19 from him?
- 20 A. Sure. So the top 50 songs -- first of
- 21 all, it is a larger sample than 50 songs since this
- 22 varies across time.
- But, in addition to that, they show in
- 24 the paper itself that the top 50 songs, sorry, sales
- 25 of the top 50 songs are correlated with those of the

- 1 top 200 songs. Right? So they show that this
- 2 result can generalize beyond the top 50 songs.
- Q. And do you have an opinion -- in your
- 4 opinion does the fact that the researchers relied
- 5 only on Spotify data render this research
- 6 unreliable?
- 7 A. No, not at all. As we know, Spotify is
- 8 one of the more prominent players in this industry
- 9 so it makes sense to sort of generalize from
- 10 Spotify.
- 11 Q. And in paragraph 98, Dr. Rysman cites his
- 12 data that indicates that a user of Spotify Free
- 13 streams about 58 streams per week, and then compares
- 14 it with the Aguiar and Waldfogel conversion rate of
- 15 137 streams to one download.
- 16 And Dr. Rysman concludes that "137 is
- 17 very far outside of anything observed in the data."
- 18 Do you have an opinion about that statement?
- 19 A. Sure. It doesn't really make sense. He
- 20 is trying to compare two very different things,
- 21 streams, weekly streams, with a ratio that is
- 22 calculated. So these are two completely different
- 23 non-comparable things.
- Q. In paragraph 99, Dr. Rysman quotes
- 25 language at the end of the Waldfogel study, or

- 1 paper, which notes that the results are based on
- 2 limited data that fall short of the ideal, and that
- 3 additional work would be helpful to provide more
- 4 confidence in their answer.
- 5 Do you have an opinion about these
- 6 statements that appear at the end of the paper?
- 7 A. Sure. It is very standard boilerplate
- 8 language that we write at the end of most papers.
- 9 Not all papers are -- or all papers that we sort of
- 10 write are ongoing. Right? There is always more
- 11 work that we can suggest to be done in the future.
- 12 And that's basically what that is saying.
- Q. Does this language at the end of the
- 14 paper change your opinion as to whether this study
- 15 was reliable?
- 16 A. No, not at all.
- 17 Q. In paragraph 100, Dr. Rysman states that
- 18 when the researchers expanded their data to include
- 19 countries outside the U.S., they found a conversion
- 20 rate of 43-to-1. Do you have an opinion about that
- 21 statement?
- 22 A. Sure. So Waldfogel, Aguiar and Waldfogel
- 23 themselves say that number is less reliable. So
- 24 they have run many regressions. They have many
- 25 results. This is one that was pulled out of it.

- 1 This was based on a very small amount of data across
- 2 countries outside the U.S. where we don't know
- 3 whether Spotify is a dominant player or not.
- 4 So it is not really the right number to
- 5 refer to. And the authors themselves say at the end
- 6 that, despite all of these other numbers that they
- 7 have come up with, 1-to-137 is the one that is the
- 8 most robust, the one that makes sense.
- 9 Q. Lastly, in paragraph 101 Dr. Rysman cites
- 10 a paper by Dada, Knox and Rodenberg. Are you
- 11 familiar with that paper?
- 12 A. Yes, I am.
- Q. And Dr. Rysman says the paper "reveals
- 14 the untethered nature of your inquiry by implying a
- 15 substantially different conversion rate of
- 16 approximately 2-to-1."
- 17 Do you have an opinion about that
- 18 statement?
- 19 A. Sure. That's the -- the Dada paper,
- 20 Dada, et al. paper is not even trying to come up
- 21 with a conversion ratio. They are looking at
- 22 something very different. They are looking at sort
- 23 of overall consumption number of streams and number
- 24 of play counts that have already purchased music.
- So this is not a conversion ratio between

- 1 one sale of a digital download to a set of streams.
- Q. And what do you mean they were looking at
- 3 play counts?
- 4 A. They were looking at how many times
- 5 somebody streamed on -- so they looked at, after the
- 6 entry of Spotify, did that change how many times
- 7 people streamed on Spotify versus how many times
- 8 they played their already-owned music on iTunes.
- 9 JUDGE STRICKLER: Was that done by a
- 10 survey, as far as you know?
- 11 THE WITNESS: I think it is observational
- 12 data. I think they have actual data, actual
- 13 observational data from the sites, yes.
- 14 JUDGE STRICKLER: From the?
- 15 THE WITNESS: From the sites. From the
- 16 services.
- 17 JUDGE STRICKLER: Well, how do they --
- 18 well, how do they get -- oh, how many times the
- 19 downloads themselves were played?
- 20 THE WITNESS: Yes. I think it is
- 21 available on the iTunes interface from what I know.
- JUDGE STRICKLER: Thank you.
- 23 THE WITNESS: Sure.
- 24 BY MS. SCHMITT:
- 25 O. And to be clear, nowhere in this paper by

- 1 Dada, Knox and Rodenberg did they say that two
- 2 streams equals one download?
- A. No, not at all.
- Q. Did anything in Dr. Rysman's written
- 5 rebuttal testimony change your opinion that the
- 6 Waldfogel study was reliable?
- 7 A. No, not at all.
- 8 Q. And did anything he say change your
- 9 opinion that the 1-to-137 benchmark they reported is
- 10 appropriate to consider in this context?
- 11 A. Sorry, can you repeat that?
- 12 Q. Sure. I'm sorry. Did anything
- 13 Dr. Rysman say change your opinion that the 1-to-137
- 14 benchmark is appropriate to consider in this
- 15 context?
- 16 A. No.
- 17 O. Now, I would like to sum up all the
- 18 industry and academic benchmarks that you have
- 19 discussed.
- 20 A. Sure.
- Q. Turning to Apple Demonstrative 29, can
- 22 you please summarize what is shown here?
- 23 A. Sure. This summarizes all of the
- 24 benchmarks that we just discussed that range from
- 25 the conversion range -- the conversion range is

- 1 1-to-100 to 1-to-150 streams per track, which
- 2 results, if you apply that formula, the royalty
- 3 range of 0.00061 to 0.00091.
- Q. And based on this, what is your opinion
- 5 of Apple's proposal of .00091 per stream?
- 6 A. I think it makes sense. As I said, I
- 7 believe that 1-to-100 is a conversion ratio that
- 8 allows the copyright owners to get a return that
- 9 makes sense for them, and predictable to them, yeah,
- 10 and also is fair for the streaming services.
- 11 O. And did anything you read in
- 12 Dr. Eisenach's or Dr. Rysman's written rebuttal
- 13 testimony change your opinion about Apple's proposed
- 14 rate for interactive streaming?
- 15 A. No, not at all.
- MS. SCHMITT: Thank you.
- 17 JUDGE BARNETT: A good place to break, I
- 18 think.
- 19 MS. SCHMITT: I agree with you, Your
- 20 Honor.
- JUDGE BARNETT: We will be at recess then
- 22 until 9:00 o'clock in the morning.
- 23 (Whereupon, at 5:03 p.m., the hearing
- 24 recessed, to reconvene at 9:00 a.m. on March 23,
- 25 2017.)

1		C O N T	ENTS		
2	WITNESS	DIRECT	CROSS	REDIRECT	RECROSS
3	DAVID PAKMA	N			
4		2292	2347	2450	
5	DAVID DORN				
6		2439	2543		
7			2563	2565	
8	JUI RAMAPRA	SAD			
9		2573			
10					
11		AFTERN	OON SESSI	ON: 2438	
12					
13		CONFIDENT	'IAL SESSI	ONS:	
14	2384-238	36, 2529-2	542, 2549	-2560, 2565-	2569
15					
16		ΕX	HIBI	T S	
17	EXHIBIT NO:	MAR	KED/RECEI	VED	
18	GOOGLE				
19	696		2301		
20	775		2436		
21	776		2444		
22	777		2444		
23	APPLE				
24	1431		2444		
25	1432R		2444		

1	EXHIBIT NO:	MARKED/RECEIVED
2	APPLE	
3	1433R	2444
4	1434R	2444
5	1435R	2444
6	1436R	2444
7	1437R	2436
8	1439	2444
9	1440	2444
10	1441	2444
11	1442	2444
12	1469	2618
13	1489	2621
14	1585R	2444
15	1586R	2444
16	1587R	2444
17	1588R	2444
18	1589R	2444
19	1590R	2444
20	1592	2444
21	1593	2444
22	1594	2444
23	1595	2444
24	1596	2444
25	1611R	2442

1	EXHIBIT NO:	MARKED/RECEIVED
2	APPLE	
3	1612R	2443
4	1613R	2436
5	1614R	2436
6	1615	2584
7	1616	2585
8	COPYRIGHT OWN	ERS
9	2640	2364
10	2641	2365
11	2678	2424
12	2752	2366
13	2780	2360
14	EXHIBIT:	MARKED FOR ID ONLY
15	5013	2349
16	5014	2393
17		
18		
19		
20		
21		
22		
23		
24		
25		

1	CERTIFICATE
2	
3	I certify that the foregoing is a true and
4	accurate transcript, to the best of my skill and
5	ability, from my stenographic notes of this
6	proceeding.
7)
8	3/20/17 Se Brighte
9 '	3/22/17 - Jy 10/100
10	Date Signature of the Court Reporter
11	
12	
13	
14	
15	•
16	
17	
18	
19	
20	
21	
22	
23	
24	
25	

